

FEDERAL ITEM IDENTIFICATION GUIDE

SPECIAL VALVES

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The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

Index of Approved Item Names Covered by this FIIG
Applicability Key Index
Section I - Item Characteristics Data Requirements
Section III - New text that should be here.
Appendix A - Reply Tables
Appendix B - Reference Drawing Groups (as applicable)
Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode</u>	<u>Requirement</u>	<u>Example</u>
	<u>Code</u>		
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
<i>AAAAAAAAAAAAA DUAL BRAKE VALVE, PNEUMATIC</i>	39029	AW

Valve

1. A mechanism designed to control the flow of liquids or gases either within a closed system such as a pipeline or between the atmosphere and a closed system. It may be manually and/or power operated, actuated by predetermined pressure and/or temperature, or a pressure and/or temperature differential. Excludes FAUCET (as modified); COCK (as modified); and THERMOSTAT (as modified).

VALVE, AIR VENTING, HOT WATER RADIATOR	15682	AA
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A manually operated device designed for use in a hot water radiator to relieve accumulated air. It is usually constructed with a needle type disk and may have a loose key handle or a fixed wheel handle. See also VALVE, ANGLE; VALVE, CROSS; and VALVE, GLOBE.

VALVE, ALARM, AUTOMATIC SPRINKLER	03949	AB
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A device which when one or more sprinkler heads are opened, automatically releases the flow of water to the sprinkler system alarm.

VALVE (1), AUTOMATIC TEMPERING	08240	AC
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A self-acting valve with a thermostatic element inside the body. It is specifically designed to mix fluids of different temperatures, such as hot and cold water or steam and water, and to discharge at a predetermined temperature. See also VALVE, REGULATING, TEMPERATURE.

VALVE (1), BRAKE, PNEUMATIC	38348	AW
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A panel mounted dual function control, three way valve which incorporates a check valve to protect the emergency supply reservoir and to control the supply and exhaust ports.

VALVE, CONTROL, AUTOMATIC SPRINKLER	03969	AD
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A device designed for installation in the main riser of a dry or empty pipe automatic sprinkler system and held closed by spring force, air, or water pressure. Water is automatically released to the sprinkler system either by releasing or lowering the pressure beyond the minimum requirement or admitting and increasing the pressure to overcome the spring force.

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
VALVE (1), CYLINDER, GAS	07848	AE
A valve specifically designed for the control of compressed or liquefied gases and legibly marked with name of gas for which designed. Inlet connection threads are coated with lead and/or tin to form a tight seal. A cap or plug is usually supplied to protect outlet connection threads and prevent leakage.		
VALVE (1), DRUM FILLING #	16995	AF
A float operated valve designed for filling containers in a drum filling plant and to automatically shut off at a predetermined level. See also VALVE, FLOAT.		
VALVE (1), EXPANSION	05493	AG
A self-acting valve specifically designed for use in refrigeration systems for continual control of rate of flow of refrigerant. It may be actuated by a thermostatic element or self-actuated.		
VALVE (1), FIRE CHECK	16997	AH
A valve which works on a thermostatic principle to stop and extinguish backfire in gas-air pipelines by utilizing the heat generated by the fire to actuate the mechanism which closes the valve. It also contains a swing check on the inlet connection which closes immediately upon shock caused by backfire, shutting off the gas-air mixture. It is designed for installation in a pipeline to feed gas-air mixtures to burners and the like.		
VALVE, FLOAT, WATER CLOSET TANK	07161	AJ
An automatic, float-operated valve used for filling water closet tanks.		
VALVE, FLUSH	07162	AK
A manually or automatically operated device which releases a volume of water used for flushing water closets and urinals.		
VALVE (1), FOOT	13762	AL
A valve used on the free end of a suction line permitting flow in only one direction. It is always equipped with a strainer at the inlet end. See also VALVE, CHECK.		
VALVE (1), PNEUMATIC TANK	06509	AM
A valve designed for attachment to pressure tanks and/or mechanical equipment for the purpose of permitting an increase, decrease, and the gaging of pressure (similar to tire valves) within a confining chamber carrying compressed air, gases or oil.		
VALVE (1), PRESSURE EQUALIZING, GASEOUS PRODUCTS	10958	AP
A valve consisting of a single deadweight loaded disk, or two deadweight loaded disks each with a separate seat. It is specifically designed for the relief of small pressure and vacuum conditions within a tank or other container to or from the atmosphere. The center of the single deadweight loaded disk may contain a spring loaded disk forming an additional seat or aperture. It may be spring loaded and/or equipped with a manual unloader on either the pressure or vacuum side. Excludes VALVE, VACUUM BREAKING.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
VALVE, PRESSURE, GAS BOMB #	21139	AN

A metallic device specifically designed to permit the measuring of pressure in a gas bomb. It is assembled within the bomb body with a partial projection to permit opening of the valve. A gage is then attached to obtain a pressure reading. It is not spring loaded and design does not permit variation of pressure. Excludes VALVE, PNEUMATIC TANK.

VALVE (1), RADIATOR, HEATING	04846	AQ
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A valve specifically designed for installation in the supply line of a heating radiator. It has a female inlet and a ground joint union nut with a male iron pipe threaded tailpiece outlet.

VALVE (1), RELAY, AIR PRESSURE	36296	AT
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A valve specifically designed for installation in an air brake system. It is used on trailers, long wheel base vehicles, as well as multiple rear axle vehicles. It serves to speed and synchronize the application and release of air operated service or parking brakes. It may include emergency features for trailer application.

VALVE (1), RELIEF, PRESSURE AND TEMPERATURE	16996	AR
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A valve designed to release under excessive pressure and/or excessive temperature by opening at a predetermined pressure and/or temperature. Thermostatically operated valves close when the pressure is relieved or the temperature is reduced. Fusible plug valves require replacement of the plug. See also VALVE, SAFETY RELIEF and VALVE, TEMPERATURE REGULATING.

VALVE (1), SHOWER, SELF-CLOSING	15639	AS
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A quick opening valve designed for installation in the discharge line of a shower preceding the shower head. It is controlled by an actuating lever to which a chain and ring are usually attached for operation.

VALVE, VACUUM BREAKING	08101	AT
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An item designed to automatically relieve vacuum, by the intake of air, when the internal pressure falls below atmospheric pressure. See also VALVE, VACUUM REGULATING.

VALVE, VACUUM REGULATING	27489	AU
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A device designed to regulate vacuum within the desired operating limits. See also VALVE, VACUUM BREAKING.

VALVE (1), WATER MIXING	30193	AV
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A valve having one discharge connection and separate hot and cold inlet connections in one body. It is designed to mix water to a desired temperature.

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	<u>AA</u>	<u>AB</u>	<u>AC</u>	<u>AD</u>	<u>AE</u>	<u>AF</u>	<u>AG</u>	<u>AH</u>	<u>AJ</u>	<u>AK</u>
NAME	X	X	X	X	X	X	X	X	X	X
AAQL	X	X	X	X	X	X#	X	X	X	X
ACSX	AR									
ADQL	AR									
ADQM	AR									
ADQN	AR									
ADQP	AR									
ADQQ	AR									
ADQR	AR									
ADQL	AR									
ADQM	AR									
ADQN	AR									
ADAR	AR									
AAFZ	X	X	X	X	X	X	X	X	X	X
AAJP	AR									
ACSH	AR									
ADQU	X	X	X	X	X	X	X	X	X	X
ADQV	AR									
ABEP	AR									
ADQZ	X	X	X	X	X	X#	X	X		X
ACKM	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACLR	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACLS	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACMX	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACMY	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACPE	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACPF	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ADQW				AR	AR				AR	
AFKJ										X
AEVX			X							
AAJJ			X	X	X		X			
ACKL	AR									
ABJH	X	X	X	X	X	X	X	X	X	X
ADSY			X							
AFKK						X				
AFKL							AR			
AFKM							X			
AFKN								AR		
AFKP								AR		
AGUB							X			
CXPJ								AR		
AFKQ								AR		
AEVT								AR		
AFKR								AR		
AEVU								AR		
AEVV								AR		
AFKU						X				
AFKV								AR		

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AFKW									AR	
ADSW									AR	
AFKY	AR		AR							
ACVE		X							X	
AFKZ									X	
AHZV									X	
AGGA			X							
ADSR				AR						
ADST			X							
ADZH				AR						
AFLK	AR		AR							
AFLL	X									
ACQV							X	X		
AFLM									X	
MARK			AR							
ABFF	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKN	X	X	X	X	X	X#	X	X	X	
ACLT	AR	AR	AR	AR	AR	AR#	AR	AR	AR	
ACMZ	AR	AR	AR	AR	AR	AR#	AR	AR	AR	
ACPG	AR	AR	AR	AR	AR	AR#	AR	AR	AR	
ACKP	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKQ	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKS	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACLU	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACLV	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACLW	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACLX	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACNA	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACNB	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACNC	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACND	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACPH	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACPJ	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACPK	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACPL	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKT	AR	AR	AR	AR	AR	AR#	AR	AR	AR	
ACLY	AR	AR	AR	AR	AR	AR#	AR	AR	AR	
ACNF	AR	AR	AR	AR	AR	AR#	AR	AR	AR	
ACPM	AR	AR	AR	AR	AR	AR#	AR	AR	AR	
AAHF	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKU	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKV	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKW	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKX	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACKY	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACLA	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACLB	AR	AR	AR	AR	AR	AR	AR	AR	AR	
AFLN	AR	AR	AR	AR	AR	AR	AR	AR	AR	
AFLS	AR	AR	AR	AR	AR	AR	AR	AR	AR	
AAHV	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACLZ	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACMA	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACMB	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACMC	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACMD	AR	AR	AR	AR	AR	AR	AR	AR	AR	
ACMG	AR	AR	AR	AR	AR	AR	AR	AR	AR	

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ACMH	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLP	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLT	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNG	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNH	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNJ	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNK	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNL	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNM	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNP	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNQ	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLQ	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLU	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPN	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPP	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPQ	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPS	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPT	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPV	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPW	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLV	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKZ	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACMF	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACNN	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACPU	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACLE	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACML	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACNT						AR			
ACPZ	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACLF	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACMM	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACNU						AR			
ACQA	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACLG	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACMN	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACNV						AR			
ACQB	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACLH	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACMP	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACNW						AR			
ACQC	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACLK	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACMR	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACNY						AR			
ACQE	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ADRN	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ADRP	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ADRQ						AR			
ADDR	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACLL	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACMS	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACNZ						AR			
ACQF	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACTE	AR	AR	AR	AR	AR	AR#	AR	AR	AR
ACTF	AR	AR	AR	AR	AR	AR#	AR	AR	AR

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ACTG		AR			AR					
ACTH	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACTK	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACTL	AR	AR	AR	AR	AR	AR#	AR	AR		AR
ACTM			AR				AR			
ACTN	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CQMM	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CRPF	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CSDF			AR				AR	AR		AR
CQCR	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CQYM	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CRNB	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CSCN			AR				AR			
CQFH	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CSQH	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CTDX	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CTNH			AR				AR			
CTNR	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CWBM	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CXNC	AR	AR	AR	AR	AR	AR#	AR	AR		AR
CTNX			AR				AR			
CTPF	AR	AR	AR	AR	AR	AR#	AR	AR		AR
FEAT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
TEST	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SPCL	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZW	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
CRTL	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
PRPY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ELRN	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ELCD	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ENAC	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFJK	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SUPP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AGAV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
CXY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
HZRD	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

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	<u>AL</u>	<u>AM</u>	<u>AN</u>	<u>AP</u>	<u>AQ</u>	<u>AR</u>	<u>AS</u>	<u>AT</u>	<u>AU</u>	<u>AV</u>
NAME	X	X	X	X	X	X	X	X	X	X
AAQL	X	X	X#	X	X	X	X	X	X	X
ACSX	AR									
ADQL	AR									
ADQM	AR									
ADQN	AR									
ADQP	AR									
ADQQ	AR									
ADQR	AR									
ADQL	AR		AR							
ADQM	AR		AR							
ADQN	AR		AR							
ADAR	AR		AR							
AAFZ	X	X	X	X	X	X	X	X	X	X
AAJP	AR									
ACSH	AR									
ADQU	X	X	X	X	X	X	X	X	X	X
ADQV	AR									
ABEP	AR									
ADQZ	X	X	X#	X	X	X	X	X	X	X
ACKM	AR	AR	AR#	AR						
ACLR	AR	AR	AR#	AR						
ACLS	AR	AR	AR#	AR						
ACMX	AR	AR	AR#	AR						
ACMY	AR	AR	AR#	AR						
ACPE	AR	AR	AR#	AR						
ACPF	AR	AR	AR#	AR						
ADQW				AR						
AEVX					X		X	X		
AAJJ	X			X	X		X		X	
ACKL	AR									
ABJH	X	X	X	X	X	X	X	X	X	X
ADSY					X				X	
AEVU					AR					
AEVV					AR					
AFKX					X					
ADSV				AR		AR				
ADSW					AR					
ACVE								X		
AFLA		AR								
AFLB		AR								
AFLC		AR								
AFLD		AR								
AFLE				X						
AFLF				AR						
ADSU				AR						
AFLG				AR			AR	AR		
AFLH						AR	AR	AR		
ADZH	AR					AR				
AFLK	AR									
MARK				AR						
ABFF	AR									
ACKN	X	X	X#	X	X	X	X	X	X	X

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ACLT	AR	AR	AR#	AR							
ACMZ	AR	AR	AR#	AR							
ACPG	AR	AR	AR#	AR							
ACKP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKQ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKS	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACLU	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACLV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACLW	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACLX	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNA	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNB	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNC	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACND	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPH	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPJ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPK	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPL	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKT	AR	AR	AR#	AR							
ACLY	AR	AR	AR#	AR							
ACNF	AR	AR	AR#	AR							
ACPM	AR	AR	AR#	AR							
AAHF	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKU	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKW	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKX	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACLA	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACLB	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLN	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLS	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AAHV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACLZ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACMA	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACMB	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACMC	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACMD	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACMG	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACMH	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNG	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNH	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNJ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNK	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNL	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNM	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACNQ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLQ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLU	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPN	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPQ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

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ACPS	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACPW	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFLV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ACKZ	AR	AR	AR#	AR							
ACMF	AR	AR	AR#	AR							
ACNN	AR	AR	AR#	AR							
ACPU	AR	AR	AR#	AR							
ACLE	AR	AR	AR#	AR							
ACML	AR	AR	AR#	AR							
ACNT	AR	AR	AR#	AR							
ACPZ	AR	AR	AR#	AR							
ACLF	AR	AR	AR#	AR							
ACMM	AR	AR	AR#	AR							
ACNU	AR	AR	AR#	AR							
ACQA	AR	AR	AR#	AR							
ACLG	AR	AR	AR#	AR							
ACMN	AR	AR	AR#	AR							
ACNV	AR	AR	AR#	AR							
ACQB	AR	AR	AR#	AR							
ACLH	AR	AR	AR#	AR							
ACMP	AR	AR	AR#	AR							
ACNW	AR	AR	AR#	AR							
ACQC	AR	AR	AR#	AR							
ACLK	AR	AR	AR#	AR							
ACMR	AR	AR	AR#	AR							
ACNY	AR	AR	AR#	AR							
ACQE	AR	AR	AR#	AR							
ADRN	AR	AR	AR#	AR							
ADRP	AR	AR	AR#	AR							
ADRQ	AR	AR	AR#	AR							
ADRR	AR	AR	AR#	AR							
ACLL	AR	AR	AR#	AR							
ACMS	AR	AR	AR#	AR							
ACNZ	AR	AR	AR#	AR							
ACQF	AR	AR	AR#	AR							
ACTE	AR	AR	AR#	AR							
ACTF	AR	AR	AR#	AR							
ACTG	AR	AR	AR#	AR							
ACTH	AR	AR	AR#	AR							
ACTK	AR	AR	AR#	AR							
ACTL	AR	AR	AR#	AR							
ACTM	AR	AR	AR#	AR							
ACTN	AR	AR	AR#	AR							
CQMM	AR	AR	AR#	AR							
CRPF	AR	AR	AR#	AR							
CSDF	AR	AR	AR#	AR							
CQCR	AR	AR	AR#	AR							
CQYM	AR	AR	AR#	AR							
CRNB	AR	AR	AR#	AR							
CSCN	AR	AR	AR#	AR							
CQFH	AR	AR	AR#	AR							
CSQH	AR	AR	AR#	AR							
CTDX	AR	AR	AR#	AR							
CTNH	AR	AR	AR#	AR							

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CTNR	AR	AR	AR#	AR							
CWBM	AR	AR	AR#	AR							
CXNC		AR	AR#		AR						
CTNX	AR	AR	AR#	AR							
CTPF	AR	AR	AR#	AR							
FEAT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
TEST	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SPCL	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZW	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
CRTL	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
PRPY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ELRN	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ELCD	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ENAC	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFJK	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SUPP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AGAV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
CXCY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
HZRD	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

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AW

NAME	X
AAFZ	X
AAJP	AR
ACSH	AR
ADQU	X
ADQV	AR
ABEP	AR
ADQW	X
AAJJ	X
ACKL	AR
ABJH	X
ABFF	AR
ACKN	X
ACLT	AR
ACMZ	AR
ACPG	AR
ACKP	AR
ACKQ	AR
ACKR	AR
ACKS	AR
ACLU	AR
ACLV	AR
ACLW	AR
ACLX	AR
ACNA	AR
ACNB	AR
ACNC	AR
ACND	AR
ACPH	AR
ACPJ	AR
ACPK	AR
ACPL	AR
ACKT	AR
ACLY	AR
ACNF	AR
ACPM	AR
AAHF	AR
ACKU	AR
ACKV	AR
ACKW	AR
ACKX	AR
ACKY	AR
ACLA	AR
ACLB	AR
AFLN	AR
AFLS	AR
AAHV	AR
ACLZ	AR
ACMA	AR
ACMB	AR
ACMC	AR
ACMD	AR
ACMG	AR

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ACMH	AR
AFLP	AR
AFLT	AR
ACNG	AR
ACNH	AR
ACNJ	AR
ACNK	AR
ACNL	AR
ACNM	AR
ACNP	AR
ACNQ	AR
AFLQ	AR
AFLU	AR
ACPN	AR
ACPP	AR
ACPR	AR
ACPQ	AR
ACPS	AR
ACPT	AR
ACPV	AR
ACPW	AR
AFLR	AR
AFLV	AR
ACKZ	AR
ACMF	AR
ACNN	AR
ACPU	AR
ACLE	AR
ACML	AR
ACNT	AR
ACPZ	AR
ACLF	AR
ACMM	AR
ACNU	AR
ACQA	AR
ACLG	AR
ACMN	AR
ACNV	AR
ACQB	AR
ACLH	AR
ACMP	AR
ACNW	AR
ACQC	AR
ACLK	AR
ACMR	AR
ACNY	AR
ACQE	AR
ADRN	AR
ADRP	AR
ADRQ	AR
ADRR	AR
ACLL	AR
ACMS	AR
ACNZ	AR
ACQF	AR
ACTE	AR
ACTF	AR

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ACTG	AR
ACTH	AR
ACTK	AR
ACTL	AR
ACTM	AR
ACTN	AR
CQMM	AR
CRPF	AR
CSDF	AR
CQCR	AR
CQYM	AR
CRNB	AR
CSCN	AR
CQFH	AR
CSQH	AR
CTDX	AR
CTNH	AR
CTNR	AR
CWBM	AR
CXNC	AR
CTNX	AR
CTPF	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
ENAC	AR
AFJK	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

SECTION I

APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL			
NAME D ITEM NAME			
Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.			
Reply Instructions: Enter the applicable Item Name Code (e.g., NAMED08240*)			
AA, AB, AC, AD, AE, AF#, AG, AH, AJ, AK, AL, AM, AN#, AP, AQ, AR, AS, AT, AU, AV			
AAQL L BODY STYLE			
Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE BODY.			
Reply Instructions: Enter the applicable group designator and style number from Appendix B , Reference Drawing Group A, B, C, D, E or F. (e.g., AAQLLA2*)			
ALL			
AAFZ	D		BODY MATERIAL
Definition: THE BASIC MATERIAL OF WHICH THE BODY IS FABRICATED.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., AAFZDBR0016*; AAFZDBN0014\$\$DFE0000*; AAFZDBR0336\$DFE0013*)			
ALL*			
AAJP	D		OUTSIDE SURFACE TREATMENT
Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS THE OUTSIDE SURFACE.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 6. (e.g., AAJPDCD0001*; AAJPDCR0000\$\$DNF0014*; AAJPDAN0000\$DZNC000*)			

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SECTION I

APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL*			
ACSH D SEAT MATERIAL			
Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE SEATING SURFACES ARE FABRICATED.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., ACSHDSTB000*; ACSHDPCAAAL\$\$DST0000*; ACSHDBN0014\$DBN0015*)			
ALL			
ADQU D FLOW CONTROL DEVICE			
Definition: THE PART THAT CONTROLS THE FLOW THROUGH THE ITEM.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 7. (e.g., ADQUDAD*; ADQUDAA\$\$DAD*; ADQUDAG\$DAN*)			
ALL*			
ADQV D FLOW CONTROL DEVICE MATERIAL			
Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE FLOW CONTROL DEVICE IS FABRICATED.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., ADQVDBR0099*)			
If the seating surface is other than the basic material, use AND/OR coding entering the basic material first. (e.g., ADQVDFEA000\$\$DBN0086*; ADQVDPC0628\$DPL0000*)			
ALL*			
ABEP D STEM MATERIAL			
Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE STEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., ABEPDSTB000*; ABEPDBN0000\$\$DSTB000*; ABEPDST1646\$DST1647*)			
AA, AB, AC, AD, AE, AF#, AG, AH, AK, AL, AM, AN#, AP, AQ, AR, AS, AT, AU, AV			
ADQZ A END CONNECTION QUANTITY			

APP Key	MRC	Mode Code	Requirements
Definition: THE NUMBER OF END CONNECTIONS INCLUDED IN THE ITEM.			
Reply Instructions: Enter the quantity. (e.g., ADQZA2*)			
NOTE: FIRST, SECOND, THIRD, AND FOURTH ENDS WILL ALWAYS BE SELECTED IN ACCORDANCE WITH THE SEQUENCE GIVEN BY THE END CONNECTION TYPE TABLE.			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV* (See Note Above)			
ACKM D FIRST END CONNECTION TYPE			
Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF END CONNECTION.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 9. Then follow the instructions and answer the MRCs for the first end. (e.g., ACKMDAA*)			
NOTE: AFTER ANSWERING ALL REQUIREMENTS APPLICABLE TO THE FIRST END, REPLY TO MRC ACLR FOR THE SECOND END.			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV* (See Note Above)			
ACLR D SECOND END RELATIONSHIP WITH FIRST END			
Definition: INDICATES WHETHER OR NOT THE SECOND END IS IDENTICAL TO THE FIRST END.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACLRDB*)			

<u>REPLY CODE</u>	<u>REPLY (AB78)</u>
B	IDENTICAL
F	NOT IDENTICAL

REPLY TO MRC ADQW IF ITEM HAS ONLY TWO ENDS. REPLY TO MRC ACLS IF REPLY CODE F IS ENTERED FOR MRC ACLR. NOTE FOR MRCS ACLS, ACMX, AND ADQW: REPLY TO MRC ACMX IF REPLY CODE B IS ENTERED FOR MRC ACLR AND ITEM HAS MORE THAN TWO ENDS. REPLY TO MRC ADQW IF ITEM HAS ONLY TWO ENDS. REPLY TO MRC ACLS IF REPLY CODE F IS ENTERED FOR MRC ACLR.

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APP Key	MRC	Mode Code	Requirements								
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV* (See Note Above)											
ACLS	D		SECOND END CONNECTION TYPE								
Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF END CONNECTION.											
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 9. Then follow the instructions and answer the MRCs for the second end. (e.g., ACLSDAB*)											
NOTE: AFTER ANSWERING ALL REQUIREMENTS APPLICABLE TO THE SECOND END, REPLY TO MRC ACMX IF ITEM HAS A THIRD END. OTHERWISE, REPLY TO MRC ADQW.											
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV* (See Note Above And Preceding MRC ACLS)											
ACMX	D		THIRD END RELATIONSHIP WITH PRECEDING ENDS								
Definition: INDICATES WHETHER OR NOT THE THIRD END IS IDENTICAL WITH FIRST OR SECOND END.											
Reply Instructions: Enter the applicable Reply Code from the table below. When all three ends are identical, enter Reply Code C. (e.g., ACMXDC*)											
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 25%;">REPLY CODE</th> <th style="text-align: left; width: 75%;">REPLY (AB78)</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>IDENTICAL WITH FIRST END</td> </tr> <tr> <td>D</td> <td>IDENTICAL WITH SECOND END</td> </tr> <tr> <td>G</td> <td>NOT IDENTICAL WITH FIRST OR SECOND END</td> </tr> </tbody> </table>				REPLY CODE	REPLY (AB78)	C	IDENTICAL WITH FIRST END	D	IDENTICAL WITH SECOND END	G	NOT IDENTICAL WITH FIRST OR SECOND END
REPLY CODE	REPLY (AB78)										
C	IDENTICAL WITH FIRST END										
D	IDENTICAL WITH SECOND END										
G	NOT IDENTICAL WITH FIRST OR SECOND END										
REPLY TO MRC ADQW IF ITEM HAS ONLY THREE ENDS. REPLY TO MRC ACMY IF REPLY CODE G IS ENTERED FOR MRC ACMX. NOTE FOR MRCs ACMY, ACPE, AND ADQW: REPLY TO MRC ACPE IF REPLY CODE C OR D IS ENTERED FOR MRC ACMX AND THE ITEM HAS MORE THAN THREE ENDS. REPLY TO MRC ADQW IF ITEM HAS ONLY THREE ENDS. REPLY TO MRC ACMY IF REPLY CODE G IS ENTERED FOR MRC ACMX.											
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV* (See Note Above)											
ACMY	D		THIRD END CONNECTION TYPE								

APP Key	MRC	Mode Code	Requirements
Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF END CONNECTION.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 9. Then follow the instructions and answer the MRCs for the third end. (e.g., ACMYDAC*)			
NOTE: AFTER ANSWERING ALL REQUIREMENTS APPLICABLE TO THE THIRD END, REPLY TO MRC ACPE IF ITEM HAS A FOURTH END. OTHERWISE REPLY TO MRC ADQW.			
ACPE	D		FOURTH END RELATIONSHIP WITH PRECEDING ENDS
Definition: INDICATES WHETHER OR NOT THE FOURTH END IS IDENTICAL WITH THE FIRST, SECOND, OR THIRD END.			
Reply Instructions: Enter the applicable Reply Code from the table below. When all four ends are identical, enter Reply Code C. (e.g., ACPEDC*)			
<u>REPLY CODE</u>		<u>REPLY (AB78)</u>	
C		IDENTICAL WITH FIRST END	
D		IDENTICAL WITH SECOND END	
E		IDENTICAL WITH THIRD END	
H		NOT IDENTICAL WITH FIRST, SECOND OR THIRD END	
NOTE FOR MRCS ACPF AND ADQW: OMIT REPLY TO MRC ACPF AND REPLY TO MRC ADQW IF REPLY CODE C, D, OR E IS ENTERED FOR MRC ACPE. REPLY TO MRC ACPF IF REPLY CODE H IS ENTERED FOR MRC ACPE.			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV* (See Note Above)			
ACPF	D		FOURTH END CONNECTION TYPE
Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF END CONNECTION.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 9. Then follow the instructions and answer the MRCs for the fourth end. (e.g., ACPFDAD*)			

APP	Key	MRC	Mode Code	Requirements
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NOTE: AFTER ANSWERING ALL REQUIREMENTS APPLICABLE TO THE FOURTH END, REPLY NEXT TO MRC ADQW.

AD*, AE*, AK*, AQ*, AW (See Note Above and Preceding MRCS ACLS, ACMY, and ACPF)

ADQW D VALVE OPERATION METHOD

Definition: THE MEANS USED TO CHANGE THE VALVE OPENING TO CONTROL THE FLOW OF FLUIDS OR GASES.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 4. (e.g., ADQWDAX*; ADQWDBB\$DAT*)

AK

AFKJ B OPERATING MECHANISM ANGLE FROM INLET IN DEG

Definition: THE ANGLE BETWEEN THE OPERATING MECHANISM AND THE INLET, EXPRESSED IN DEGREES.

Reply Instructions: Enter the numeric value. (e.g., AFKJB180.0*)

The angle is measured in clockwise direction when facing front of valve.

AC, AR, AT, AU

AEVX D TEMP ADJUSTABILITY

Definition: AN INDICATION OF WHETHER OR NOT THE TEMPERATURE IS ADJUSTABLE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVXDB*)

<u>REPLY CODE</u>	<u>REPLY (AC06)</u>
B	ADJUSTABLE
C	NOT ADJUSTABLE

AC, AD, AE, AH, AL, AP, AQ, AS, AV, AW

AAJJ J MAXIMUM OPERATING PRESSURE

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APP Key	MRC	Mode Code	Requirements
Definition: THE MAXIMUM PRESSURE AT WHICH AN ITEM IS DESIGNED TO OPERATE.			
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AAJJJV250.0*)			
For multiple ratings, use AND Coding (\$\$) entering the ratings in ascending order. (e.g., AAJJJV150.0\$\$JV200.0*)			

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
F	BAR
K	KILOGRAMS PER SQUARE CENTIMETER
L	KILOPASCALS
V	POUNDS PER SQUARE INCH

ALL*

ACKL D MEDIA FOR WHICH DESIGNED

Definition: THE TYPE OF SERVICE WITH WHICH THE ITEM IS DESIGNED TO BE USED.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., ACKLDAD*; ACKLDCS\$DCT*)

For items with multiple replies, use AND Coding (\$\$) entering in the same sequence as MRC AAJJ. (i.e. ACKLDAD\$\$DCT)*

ALL

ABJH J TEMP RATING

Definition: A VALUE WHICH EXPRESSES THE DEGREE OF HEAT OR COLD AS APPLIED TO THE OPERATION, OR LIMITATION OF OPERATION, OF AN ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. If the source document indicates a value below zero degrees, precede the entered value with an M. Without the letter M, the value will be assumed to be above zero. (e.g., ABJHJCM50.0*; ABJHJC300.0*)

APP Key	MRC	Mode Code	Requirements
If the source document indicates the temperature in the Kelvin scale, convert to the Celsius scale, or if in the Rankine scale, convert to the Fahrenheit scale. Kelvin is based on Celsius divisions and converts as follows: 0 deg Kelvin = -273 deg Celsius. Rankine is based on Fahrenheit divisions and converts as follows: 0 deg Rankine = -459 deg Fahrenheit.			
		<u>REPLY CODE</u>	<u>REPLY (AB36)</u>
		C	DEG CELSIUS
		F	DEG FAHRENHEIT

NOTE FOR MRC ADSY: REPLIES TO MRC ADSY ARE APPLICABLE TO THE REPLY(IES) ENTERED FOR MRC ACKL.

AC, AR, AV (See Note Above)

ADSY J VALVE DISCHARGE FLOW RATE

Definition: THE RATED VALVE DISCHARGE CAPACITY PER UNIT OF TIME.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ADSYJV300.0*)

<u>REPLY CODE</u>	<u>REPLY (AC64)</u>
A	CUBIC FEET PER MINUTE
C	CUBIC METERS PER MINUTE
M	GALLONS PER MINUTE
Y	IMPERIAL GALLONS PER MINUTE
W	KILOGRAMS PER HOUR
E	LITERS PER MINUTE
V	POUNDS PER HOUR

AG

AFKK D VALVE EXPANSION CONTROL TYPE

Definition: INDICATES THE TYPE OF CONTROL BY WHICH THE VALVE IS EXPANDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFKKDC*)

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APP Key	MRC	Mode Code	Requirements
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<u>REPLY CODE</u>	<u>REPLY (AB09)</u>
D	PRESSURE
C	THERMOSTATIC

NOTE FOR MRC AFKL: REPLY TO THIS MRC, IF REPLY CODE C IS ENTERED FOR MRC AFKK.

AG* (See Note Above)

AFKL	D	VALVE EVAPORATOR TEMP RANGE DESIGNATION
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Definition: A DESIGNATION OF THE EVAPORATOR TEMPERATURE RANGE AT WHICH THE VALVE IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFKLDC*; AFKLDB\$\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AE25)</u>
D	EXTREMELY LOW (minus 40 Deg C to minus 76 Deg C) (minus 40 Deg F to minus 105 Deg F)
B	HIGH (plus 21 Deg C to minus 18 Deg C) (70 Deg F to 0 Deg F)
C	LOW (minus 18 Deg C to minus 40 Deg C) (0 Deg F to minus 40 Deg F)

AG

AFKM	D	VALVE PRESSURE LIMITING DEVICE
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Definition: AN INDICATION OF WHETHER OR NOT A DEVICE IS INCLUDED THAT THROTTLES OR STOPS THE FLOW OF LIQUID, GAS, AND THE LIKE, THROUGH THE VALVE WHEN EVAPORATOR SUCTION PRESSURE REACHES THE MAXIMUM PRESSURE SETTING.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFKMDC*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

APP Key	MRC	Mode Code	Requirements
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NOTE FOR MRCS AFKN AND AFKP: REPLY TO THESE MRCS, IF REPLY CODE B IS ENTERED FOR MRC AFKM.

AG* (See Note Above)

AFKN J VALVE PRESSURE LIMITING DEVICE SETTING

Definition: THE SETTING AT WHICH THE VALVE PRESSURE LIMITING DEVICE IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFKNJG30.0*)

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
F	BAR
K	KILOGRAMS PER SQUARE CENTIMETER
L	KILOPASCALS
H	POUNDS PER SQUARE INCH ABSOLUTE
G	POUNDS PER SQUARE INCH GAGE

AG* (See Note Preceding MRC AFKN)

AFKP J VALVE PRESSURE LIMITING DEVICE RANGE

Definition: THE MINIMUM TO MAXIMUM LIMITS IN WHICH THE VALVE PRESSURE LIMITING DEVICE IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., AFKPJHP7.0/P55.0*)

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
F	BAR
K	KILOGRAMS PER SQUARE CENTIMETER
L	KILOPASCALS
H	POUNDS PER SQUARE INCH ABSOLUTE
G	POUNDS PER SQUARE INCH GAGE

AG

AGUB B REFRIGERATION CAPACITY IN BTU PER HOUR

APP Key	MRC	Mode Code	Requirements		
Definition: THE CAPACITY OF THE ITEM AS RATED BY INDUSTRY, EXPRESSED IN BRITISH THERMAL UNITS (BTU) OF REFRIGERATION PER HOUR.					
Reply Instructions: Enter the numeric value. (e.g., AGUBB7.5*)					
Convert BTUs to one-thousandth; for example, 12,000 BTU will be shown as 12.0. If the capacity is given in tons, convert to BTUs as follows.					
For example, 5/8 ton x 12,000 BTU = 7500 BTU					
AG*					
CXPJ	B	REFRIGERATION CAPACITY IN NEGATIVE KILO CALORIE PER HOUR			
Definition: THE CAPACITY OF THE ITEM AS RATED BY INDUSTRY EXPRESSED IN NEGATIVE KILO CALORIE PER HOUR.					
Reply Instructions: Enter the numeric value. (e.g., CXPJB8.000*)					
AG*					
AFKQ	D	BULB MEDIA TYPE			
Definition: THE TYPE OF TRANSFER AGENT CONTAINED IN THE THERMOSTATIC BULB WHICH REACTS TO TEMPERATURE CHANGE.					
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 2. (e.g., AFKQDBT*; AFKQDCS\$\$DCU*; AFKQDCX\$DRK*)					
AG*					
AEVT	J	CAPILLARY TUBE LENGTH			
Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF A CAPILLARY TUBE.					
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEVTJAA50.000*; AEVTJAB29.750\$\$JAC40.250*)					

Table 1

REPLY CODE
A

REPLY (AA05)
INCHES

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APP Key	MRC	Mode Code	Requirements
	L		MILLIMETERS
Table 2			
	<u>REPLY CODE</u>		<u>REPLY (AC20)</u>
A		NOMINAL	
B		MINIMUM	
C		MAXIMUM	
AG*			
AFKR	D		BULB MOUNTING METHOD
Definition: THE METHOD UTILIZED TO HOLD THE BULB IN POSITION.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFKRDAD*)			
	<u>REPLY CODE</u>		<u>REPLY (AB89)</u>
AD		CLAMP	
EX		WELL	
AG*, AR*			
AEVU	J		BULB LENGTH
Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF A BULB.			
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEVUJAA10.000*; AEVUJAB9.875\$\$JAC10.125*)			
Table 1			
	<u>REPLY CODE</u>		<u>REPLY (AA05)</u>
A		INCHES	
L		MILLIMETERS	
Table 2			
	<u>REPLY CODE</u>		<u>REPLY (AC20)</u>
A		NOMINAL	
B		MINIMUM	
C		MAXIMUM	

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SECTION I

APP Key	MRC	Mode Code	Requirements
AG*, AR*			

AEVV J BULB DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE BULB, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEVVJAA0.250*; AEVVJAB0.245\$\$JAC0.255*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MMILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AG

AFKU D VALVE EQUALIZER LOCATION

Definition: AN INDICATION OF WHETHER THE EQUALIZER LOCATION IS INTERNAL, EXTERNAL, OR BOTH.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFKUDAR*)

<u>REPLY CODE</u>	<u>REPLY (AE46)</u>
AR	EXTERNAL
DP	INTERNAL

NOTE FOR MRCS AFKV AND AFKW: REPLY TO THESE MRCS, IF REPLY CODE AR IS ENTERED FOR MRC AFKU.

AG* (See Note Above)

AFKV D VALVE EQUALIZER CONNECTION TYPE

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SECTION I

APP Key	MRC	Mode Code	Requirements		
Definition: INDICATES THE TYPE OF CONNECTION IN THE VALVE BODY FOR CONNECTING THE EQUALIZER LINE.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFKVDAB*)					
		<u>REPLY CODE</u>	<u>REPLY (AA84)</u>		
		AB	FLARED TUBE		
		AC	SOLDER TUBE		
AG* (See Note Preceding MRC AFKV)					
AFKW	J	VALVE EQUALIZER CONNECTION DIAMETER			
Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE VALVE EQUALIZER CONNECTION, AND TERMINATES AT THE CIRCUMFERENCE.					
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AFKWJAA0.250*; AFKWJAB0.500\$\$JAC0.512*)					
<u>Table 1</u>					
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>		
		A	INCHES		
		L	MILLIMETERS		
<u>Table 2</u>					
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>		
		A	NOMINAL		
		B	MINIMUM		
		C	MAXIMUM		
AR					
AFKX	D	TEMP CONTROL DEVICE TYPE			
Definition: INDICATES THE TYPE OF TEMPERATURE CONTROL DEVICE THAT ACTUATES THE ITEM.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFKXDE*)					

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SECTION I

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AB09)</u>

E	FUSIBLE
C	THERMOSTATIC

NOTE FOR MRCS ADSV AND ADSW: REPLY TO EITHER MRC ADSV OR ADSW, FOR APPLICABILITY KEY AR.

AP*, AR* (See Note Above)

ADSV J OPENING PRESSURE SETTING

Definition: THE PREDETERMINED PRESSURE AT WHICH THE ITEM IS CALIBRATED TO OPEN.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ADSVJV0.5*)

If there is no pressure setting, omit reply.

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
F	BAR
K	KILOGRAMS PER SQUARE CENTIMETER
L	KILOPASCALS
V	POUNDS PER SQUARE INCH

AG*, AR* (See Note Preceding MRC ADSV)

ADSW J ADJUSTABLE PRESSURE RANGE

Definition: THE MINIMUM TO MAXIMUM PRESSURES AT WHICH THE ITEM MAY BE ADJUSTED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values separated by a slash. Precede all values with a P. (e.g., ADSWJVP5.0/P10.0*)

If the item is not adjustable, omit reply.

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
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SECTION I

APP Key	MRC	Mode Code	Requirements
	F		BAR
	K		KILOGRAMS PER SQUARE CENTIMETER
	L		KILOPASCALS
	V		POUNDS PER SQUARE INCH

AB*, AD*

AFKY D SPRINKLER SYSTEM FOR WHICH DESIGNED

Definition: INDICATES THE TYPE OF SPRINKLER SYSTEM IN WHICH THE ITEM IS DESIGNED TO BE USED.

Reply Instruction: Enter the applicable Reply Code from the table below. (e.g., AFKYDD*)

<u>REPLY CODE</u>	<u>REPLY (AE26)</u>
B	DRY PIPE
C	EMPTY PIPE
D	WET PIPE

AC, AK, AV

ACVE D USAGE DESIGN

Definition: INDICATES THE DESIGNED USE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACVEDR*)

<u>REPLY CODE</u>	<u>REPLY (AB92)</u>
R	CONCEALED PIPE
S	EXPOSED PIPE

AJ

AFKZ D TANK TYPE FOR WHICH DESIGNED

Definition: INDICATES THE TYPE OF TANK FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFKZDB*)

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APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AE25)</u>
		B	HIGH
		C	LOW
AM*			
AFLA	D		CORE ENVIRONMENTAL PROTECTION
			Definition: THE ENVIRONMENTAL ELEMENTS OR CONDITIONS THAT THE CORE IS DESIGNED OR PROTECTED TO RESIST OR WITHSTAND SATISFACTORILY.
			Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFLADAC*, AFLADBC\$\$DAK*)
		<u>REPLY CODE</u>	<u>REPLY (AA65)</u>
		AC	CORROSION
		BC	HEAT, DRY
		AK	OIL RESISTANT
AM*			
AFLB	D		COMMERCIAL CORE LENGTH DESIGNATOR
			Definition: THE COMMERCIAL DESIGNATION OF THE CORE LENGTH.
			Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFLBDE*)
		<u>REPLY CODE</u>	<u>REPLY (AB79)</u>
		B	SHORT
		E	STANDARD
AM*			
AFLC	D		SPRING MATERIAL
			Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE SPRING IS FABRICATED.

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SECTION I

APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., AFLCDSTB000*; AFLCDBR0000\$\$DST0000*; AFLCDBR0000\$DSTB000*)			

AM*

AFLD D COMMERCIAL SPRING TENSION RATING

Definition: A COMMERCIAL RATING OF THE PRESSURE REQUIRED TO COMPRESS THE SPRING.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFLDDC*)

<u>REPLY CODE</u>	<u>REPLY (AE25)</u>
D	EXTREMELY LOW
B	HIGH
C	LOW
E	MEDIUM
F	MEDIUM HIGH
N	NOT RATED

AP

AFLE D VALVE VENTING DESIGN TYPE

Definition: INDICATES THE TYPE OF VALVE VENTING DESIGN, WHETHER FOR USE IN A CLOSED SYSTEM OR FOR VENTING TO THE ATMOSPHERE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFLEDB*)

<u>REPLY CODE</u>	<u>REPLY (AE29)</u>
B	ATMOSPHERIC
C	CLOSED SYSTEM

NOTE FOR MRC AFLF: REPLY TO THIS MRC, IF REPLY CODE B IS ENTERED FOR MRC AFLE.

AP* (See Note Above)

AFLF D VALVE RELIEF DESIGN TYPE

APP Key	MRC	Mode Code	Requirements		
Definition: INDICATES THE TYPE OF VALVE RELIEF DESIGN, WHETHER FOR PRESSURE OR VACUUM RELIEF OR FOR BOTH PRESSURE AND VACUUM RELIEF.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFLFDB*; AFLFDB\$\$DC*)					
	<u>REPLY CODE</u>		<u>REPLY (AE34)</u>		
	B		PRESSURE		
	C		VACUUM		
AP*					
ADSU	D	DISK LOADING METHOD			
Definition: THE METHOD OF CLOSING THE ITEM WHEN INLET PRESSURE DECREASES.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADSUDE*)					
	<u>REPLY CODE</u>		<u>REPLY (AC63)</u>		
	B		SPRING		
	E		SPRING AND WEIGHT		
	C		WEIGHT		
NOTE FOR MRCS AFLG AND AFLH: REPLY TO EITHER MRC AFLG OR AFLH, FOR APPLICABILITY KEYS AT AND AU.					
AP*, AT*, AU* (See Note Above)					
AFLG	B	ABSOLUTE PRESSURE SETTING			
Definition: THE PRESSURE ABSOLUTE (VACUUM) AT WHICH THE ITEM IS SET TO OPEN.					
Reply Instructions: Enter the vacuum pressure setting in absolute pressure (ABS PSI). (e.g., AFLGB7.0*)					
If there is no pressure setting, omit reply.					

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APP Key	MRC	Mode Code	Requirements
See Appendix C, Table 2, to convert inches of vacuum or millimeters of mercury.			
AT*, AU* (See Note Preceding MRC AFLG)	AFLH	F	ABSOLUTE PRESSURE RANGE
Definition: THE MINIMUM TO MAXIMUM PRESSURES ABSOLUTE (VACUUM) AT WHICH THE ITEM MAY BE SET TO OPEN.			
Reply Instructions: Enter the range values in absolute pressure, separated by a slash (ABS PSI). Precede all values with a P. (e.g., AFLHFP9.5/P12.0*)			
If the item is not adjustable, omit reply.			
See Appendix C, Table 2, to convert inches of vacuum or millimeters of mercury.			
AJ	AHZV	D	SUBMERSIBILITY
Definition: AN INDICATION OF WHETHER OR NOT AN ITEM IS CAPABLE OF OPERATION WHILE SUBMERGED.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AHZVDAB*)			
<u>REPLY CODE</u>		<u>REPLY (AB86)</u>	
AC		NONSUBMERSIBLE	
AB		SUBMERSIBLE	
AD	AGGA	D	STEM MOVEMENT DIRECTION
Definition: THE DIRECTION IN WHICH THE STEM IS MOVING WHEN OPENING THE VALVE.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AGGADB*)			
<u>REPLY CODE</u>		<u>REPLY (AE85)</u>	
B		ASCENDING	
C		DESCENDING	

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APP Key	MRC	Mode Code	Requirements
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AD*

ADSR D BONNET TYPE

Definition: INDICATES THE TYPE OF HOUSING ON THE ITEM THAT ACCOMMODATES THE STEM PACKING OR SPRING.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADSRDC*; ADSRDC\$DD*)

<u>REPLY CODE</u>	<u>REPLY (AC62)</u>
B	EXPOSED SPRING
C	INSIDE SCREW
D	INSIDE SPRING
E	OUTSIDE SCREW - YOKE

AD

ADST D BONNET ATTACHMENT METHOD

Definition: THE MEANS BY WHICH THE BONNET IS ATTACHED TO THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADSTDAK*; ADSTDAK\$DAS*)

<u>REPLY CODE</u>	<u>REPLY (AB47)</u>
AK	BOLTED
AL	INTEGRAL
AN	PRESSURE SEAL, BALL BEARING TYPE
AM	PRESSURE SEAL, RING TYPE
AP	THREADED
AR	U-BOLT
AQ	UNION
AS	WELDED

AD*, AL*, AS*

ADZH D RENEWABLE SEAT RING TYPE

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APP Key	MRC	Mode Code	Requirements		
Definition: INDICATES THE TYPE OF RENEWABLE SEATING RING IN THE ITEM.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADZHDAA*; ADZHDAB\$DAF*)					
	<u>REPLY CODE</u>		<u>REPLY (AC69)</u>		
	A		ANY ACCEPTABLE		
	AA		BOLTED		
	AB		BONDED		
	AC		PRESSED-IN		
	AD		RETAINING SCREW		
	AE		THREADED		
	AF		WELDED		
AA*, AD*, AL*					
AFLK	D	VALVE LOADING SPRING LOCATION			
Definition: THE LOCATION OF THE VALVE LOADING SPRING AS RELATED TO THE VALVE BODY.					
Reply Instructions: Enter the applicable Reply Code from the table below. For items with spring loading pertinent to Applicability Key AA or AL, enter Reply Code DP. (e.g., AFLKDAR*)					
	<u>REPLY CODE</u>		<u>REPLY (AE46)</u>		
	AR		EXTERNAL		
	DP		INTERNAL		
AA					
AFLL	D	VALVE SEAT LOCATION			
Definition: THE LOCATION OF THE VALVE SEAT AS RELATED TO THE VALVE BODY.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFLLDDP*)					
	<u>REPLY CODE</u>		<u>REPLY (AE46)</u>		
	AR		EXTERNAL		
	DP		INTERNAL		

APP Key	MRC	Mode Code	Requirements
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AJ, AK

ACQV D INLET LOCATION

Definition: INDICATES THE LOCATION OF THE INLET ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. Side is determined when facing front of valve. (e.g., ACQVDAD*; ACQVDGL\$\$DDK*)

<u>REPLY CODE</u>	<u>REPLY (AE46)</u>
AD	BACK
DJ	BOTTOM
GK	LEFT SIDE
GL	RIGHT SIDE
DK	TOP

AK

AFLM D FLUSH TYPE

Definition: INDICATES THE DESIGN FEATURE OF THE ITEM THAT CONTROLS THE FLOW.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFLMDB*)

<u>REPLY CODE</u>	<u>REPLY (AE31)</u>
B	BALL
C	PRESSURE
D	SIPHON

AE*, AQ*

MARK G SPECIAL MARKINGS

Definition: MARKINGS INCLUDED ON AN ITEM FOR THE PURPOSE OF OFFERING INSTRUCTIONS OR WARNINGS OR TO INDICATE THE PURPOSE, FUNCTION, OR APPLICATION OF THE ITEM. EXCLUDES MANUFACTURER'S PART NUMBERS, SYMBOLS, OR THE LIKE.

Reply Instructions: Enter the reply in clear text. (e.g., MARKGOPEN AND SHUT*)

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APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL*			
ABFF D FURNISHED ITEMS			
Definition: ITEMS FURNISHED AS ACCESSORIES WHICH ARE NOT SPECIFIED ELSEWHERE.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 5. (e.g., ABFFDRB*; ABFFDRB\$\$DRN*; ABFFDDP\$DDQ*)			
AA, AB, AC, AD, AE, AF#, AG, AH, AK, AL, AM, AN#, AP, AQ, AR, AS, AT, AU, AV, AW			
ACKN L FIRST END STYLE DESIGNATOR			
Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE END.			
Reply Instructions: Enter the applicable group designator and style number from Appendix B , Reference Drawing Group G, H, J, K, L or M (e.g., ACKNLG10*)			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*			
ACLT L SECOND END STYLE DESIGNATOR			
Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE END.			
Reply Instructions: Enter the applicable group designator and style number from Appendix B , Reference Drawing Group G, H, J, K, L or M (e.g., ACLTLG10*)			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*			
ACMZ L THIRD END STYLE DESIGNATOR			
Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE END.			
Reply Instructions: Enter the applicable group designator and style number from Appendix B , Reference Drawing Group G, H, J, K, L or M (e.g., ACMZLG10*)			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*			

APP Key	MRC	Mode Code	Requirements
	ACPG	L	FOURTH END STYLE DESIGNATOR
			Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE END.
			Reply Instructions: Enter the applicable group designator and style number from Appendix B , Reference Drawing Group G, H, J, K, L or M (e.g., ACPGLG10*)
			AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*
	ACKT	L	FIRST END FLANGE SHAPE STYLE
			Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE SHAPE OF THE END FLANGE.
			Reply Instructions: Enter the applicable flange shape number from Appendix B , Reference Drawing Group N. (e.g., ACKTL1*)
			AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*
	ACLY	L	SECOND END FLANGE SHAPE STYLE
			Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE SHAPE OF THE END FLANGE.
			Reply Instructions: Enter the applicable flange shape number from Appendix B , Reference Drawing Group N. (e.g., ACLYL1*)
			AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*
	ACNF	L	THIRD END FLANGE SHAPE STYLE
			Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE SHAPE OF THE END FLANGE.
			Reply Instructions: Enter the applicable flange shape number from Appendix B , Reference Drawing Group N. (e.g., ACNFL1*)
			AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*
	ACPM	L	FOURTH END FLANGE SHAPE STYLE

APP Key	MRC	Mode Code	Requirements
Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE SHAPE OF THE END FLANGE.			
Reply Instructions: Enter the applicable flange shape number from Appendix B , Reference Drawing Group N. (e.g., ACPML1*)			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACKZ	A	FIRST END BOLT HOLE QUANTITY
Definition: THE NUMBER OF BOLT HOLES PROVIDED ON THE ITEM.			
Reply Instructions: Enter the quantity. If the flange is without bolt holes, omit reply. (e.g., ACKZA6*)			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACMF	A	SECOND END BOLT HOLE QUANTITY
Definition: THE NUMBER OF BOLT HOLES PROVIDED ON THE ITEM.			
Reply Instructions: Enter the quantity. If the flange is without bolt holes, omit reply. (e.g., ACMFA6*)			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACNN	A	THIRD END BOLT HOLE QUANTITY
Definition: THE NUMBER OF BOLT HOLES PROVIDED ON THE ITEM.			
Reply Instructions: Enter the quantity. If the flange is without bolt holes, omit reply. (e.g., ACNNA6*)			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACPU	A	FOURTH END BOLT HOLE QUANTITY
Definition: THE NUMBER OF BOLT HOLES PROVIDED ON THE ITEM.			
Reply Instructions: Enter the quantity. If the flange is without bolt holes, omit reply. (e.g., ACPUA6*)			

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APP Key	MRC	Mode Code	Requirements
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*			
ACLE	J		FIRST END INSIDE DIAMETER HOSE ACCOMMODATED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACLEJAA0.500*; ACLEJAB3.000\$\$JAC3.125*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACML	J	SECOND END INSIDE DIAMETER HOSE ACCOMMODATED
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Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACMLJAA0.500*; ACMLJAB3.000\$\$JAC3.125*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

APP Key	MRC	Mode Code	Requirements
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM
AC*, AG*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*			
ACNT	J		THIRD END INSIDE DIAMETER HOSE ACCOMMODATED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACNTJAA0.500*; ACNTJAB3.000\$\$JAC3.125*)

<u>Table 1</u>		
	<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
	A	INCHES
	L	MILLIMETERS

<u>Table 2</u>		
	<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
	A	NOMINAL
	B	MINIMUM
	C	MAXIMUM

AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACPZ	J	FOURTH END INSIDE DIAMETER HOSE ACCOMMODATED
------	---	---

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACPZJAA0.500*; ACPZJAB3.000\$\$JAC3.125*)

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APP Key	MRC	Mode Code	Requirements
<u>Table 1</u>			
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM
<p>AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*</p>			
ACLF	J		FIRST END OUTSIDE DIAMETER HOSE ACCOMODATED
<p>Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.</p>			
<p>Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACLFJAA0.750*; ACLFJAB1.000\$\$JAC1.013*)</p>			
<u>Table 1</u>			
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM
<p>AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*</p>			
ACMM	J		SECOND END OUTSIDE DIAMETER HOSE ACCOMODATED

APP Key	MRC	Mode Code	Requirements
Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.			
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACMMJAA0.750*; ACMMJAB1.000\$\$JAC1.013*)			

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AC*, AG*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACNU J THIRD END OUTSIDE DIAMETER HOSE
ACCOMODATED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACNUJAA0.750*; ACNUJAB1.000\$\$JAC1.013*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

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APP Key	MRC	Mode Code	Requirements
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*			
ACQA	J		FOURTH END OUTSIDE DIAMETER HOSE ACCOMODATED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACQAJAA0.750*; ACQAJAB1.000\$\$JAC1.013*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACLG	J	FIRST END NOMINAL PIPE SIZE ACCOMMODATED
------	---	--

Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE NOMINAL DIAMETER OF THE PIPE THE END WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value (e.g., ACLGJA0.250*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*,

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APP Key	MRC	Mode Code	Requirements						
<hr/>									
AS*, AT*, AU*, AV*, AW*									
ACMN	J		SECOND END NOMINAL PIPE SIZE ACCOMMODATED						
Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE NOMINAL DIAMETER OF THE PIPE THE END WILL ACCOMMODATE.									
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value (e.g., ACMNJA0.250*)									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;">REPLY CODE</th> <th style="text-align: left; width: 30%;">REPLY (AA05)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>INCHES</td> </tr> <tr> <td>L</td> <td>MILLIMETERS</td> </tr> </tbody> </table>				REPLY CODE	REPLY (AA05)	A	INCHES	L	MILLIMETERS
REPLY CODE	REPLY (AA05)								
A	INCHES								
L	MILLIMETERS								
AC*, AG*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*									
ACNV	J		THIRD END NOMINAL PIPE SIZE ACCOMMODATED						
Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE NOMINAL DIAMETER OF THE PIPE THE END WILL ACCOMMODATE.									
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value (e.g., ACNVJA0.250*)									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;">REPLY CODE</th> <th style="text-align: left; width: 30%;">REPLY (AA05)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>INCHES</td> </tr> <tr> <td>L</td> <td>MILLIMETERS</td> </tr> </tbody> </table>				REPLY CODE	REPLY (AA05)	A	INCHES	L	MILLIMETERS
REPLY CODE	REPLY (AA05)								
A	INCHES								
L	MILLIMETERS								
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*									
ACQB	J		FOURTH END NOMINAL PIPE SIZE ACCOMMODATED						
Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE NOMINAL DIAMETER OF THE PIPE THE END WILL ACCOMMODATE.									
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value (e.g., ACQBJA0.250*)									

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APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACLH	J	FIRST END OUTSIDE DIAMETER TUBE ACCOMMODATED
			Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED TUBE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.
			Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACLHJAA0.625*; ACLHJAB0.235\$\$JAC0.275*)
		<u>Table 1</u>	
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACMP	J	SECOND END OUTSIDE DIAMETER TUBE ACCOMMODATED
			Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED TUBE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.
			Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACMPJAA0.625*; ACMPJAB0.235\$\$JAC0.275*)

Table 1

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APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AC*, AG*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACNW J THIRD END OUTSIDE DIAMETER TUBE
ACCOMMODATED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED TUBE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACNWJAA0.625*; ACNWJAB0.235\$\$JAC0.275*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACQC J FOURTH END OUTSIDE DIAMETER TUBE
ACCOMMODATED

APP Key	MRC	Mode Code	Requirements								
Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED TUBE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.											
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACQCJAA0.625*; ACQCJAB0.235\$\$JAC0.275*)											
<u>Table 1</u> <table> <thead> <tr> <th><u>REPLY CODE</u></th> <th><u>REPLY (AA05)</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>INCHES</td> </tr> <tr> <td>L</td> <td>MILLIMETERS</td> </tr> </tbody> </table>				<u>REPLY CODE</u>	<u>REPLY (AA05)</u>	A	INCHES	L	MILLIMETERS		
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>										
A	INCHES										
L	MILLIMETERS										
<u>Table 2</u> <table> <thead> <tr> <th><u>REPLY CODE</u></th> <th><u>REPLY (AC20)</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>NOMINAL</td> </tr> <tr> <td>B</td> <td>MINIMUM</td> </tr> <tr> <td>C</td> <td>MAXIMUM</td> </tr> </tbody> </table>				<u>REPLY CODE</u>	<u>REPLY (AC20)</u>	A	NOMINAL	B	MINIMUM	C	MAXIMUM
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>										
A	NOMINAL										
B	MINIMUM										
C	MAXIMUM										
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*											
ACLK	A	FIRST END THREAD CLASS									
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.											
Reply Instructions: Enter the thread class. (e.g., ACLKA1A*)											
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*											
ACMR	A	SECOND END THREAD CLASS									
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.											
Reply Instructions: Enter the thread class. (e.g., ACMRA1A*)											
AC*, AG*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*											
ACNY	A	THIRD END THREAD CLASS									

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APP Key	MRC	Mode Code	Requirements		
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.					
Reply Instructions: Enter the thread class. (e.g., ACNYA1A*)					
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACQE	A	FOURTH END THREAD CLASS		
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.					
Reply Instructions: Enter the thread class. (e.g., ACQEA1A*)					
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ADRN	J	FIRST END THREAD PITCH DIAMETERS		
Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.					
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., ADRNJAP0.3648/P0.3720*)					
<u>REPLY CODE</u>		<u>REPLY (AA05)</u>			
A		INCHES			
L		MILLIMETERS			
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
ADRP	J	SECOND END THREAD PITCH DIAMETERS			
Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.					
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., ADRPJAP0.3648/P0.3720*)					
<u>REPLY CODE</u>		<u>REPLY (AA05)</u>			

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APP Key	MRC	Mode Code	Requirements
	A L		INCHES MILLIMETERS

AC*, AG*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ADRQ J THIRD END THREAD PITCH DIAMETERS

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., ADRQJAP0.3648/P0.3720*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ADRR J FOURTH END THREAD PITCH DIAMETERS

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., ADRRJAP0.3648/P0.3720*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACLL D FIRST END THREAD DIRECTION

APP Key	MRC	Mode Code	Requirements		
Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACLLDL*)					
All dryseal pipe threads are right-hand.					
		<u>REPLY CODE</u>	<u>REPLY (AA38)</u>		
		L	LEFT-HAND		
		R	RIGHT-HAND		
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
ACMS	D	SECOND END THREAD DIRECTION			
Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACMSDL*)					
All dryseal pipe threads are right-hand.					
		<u>REPLY CODE</u>	<u>REPLY (AA38)</u>		
		L	LEFT-HAND		
		R	RIGHT-HAND		
AC*, AG*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
ACNZ	D	THIRD END THREAD DIRECTION			
Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACNZDL*)					

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APP Key	MRC	Mode Code	Requirements
All dryseal pipe threads are right-hand.			
		<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
		L	LEFT-HAND
		R	RIGHT-HAND
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACQF	D	FOURTH END THREAD DIRECTION
Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACQFDL*)			
All dryseal pipe threads are right-hand.			
		<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
		L	LEFT-HAND
		R	RIGHT-HAND
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACTE	B	FIRST END SEAT ANGLE IN DEG
Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.			
Reply Instructions: Enter the numeric value. (e.g., ACTEB37.5*)			
If not applicable, omit reply.			
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACTF	B	SECOND END SEAT ANGLE IN DEG

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APP Key	MRC	Mode Code	Requirements						
Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.									
Reply Instructions: Enter the numeric value. (e.g., ACTFB37.5*) If not applicable, omit reply.									
AC*, AG*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACTG	B	THIRD END SEAT ANGLE IN DEG						
Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.									
Reply Instructions: Enter the numeric value. (e.g., ACTGB37.5*) If not applicable, omit reply.									
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACTH	B	FOURTH END SEAT ANGLE IN DEG						
Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.									
Reply Instructions: Enter the numeric value. (e.g., ACTHB37.5*) If not applicable, omit reply.									
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	ACTK	J	FIRST END SEAT RADIUS						
Definition: THE RADIUS OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.									
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACTKJAA0.062*; ACTKJAB0.062\$\$JAC0.072*)									
<u>Table 1</u> <table> <thead> <tr> <th><u>REPLY CODE</u></th> <th><u>REPLY (AA05)</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>INCHES</td> </tr> <tr> <td>L</td> <td>MILLIMETERS</td> </tr> </tbody> </table>				<u>REPLY CODE</u>	<u>REPLY (AA05)</u>	A	INCHES	L	MILLIMETERS
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>								
A	INCHES								
L	MILLIMETERS								

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APP Key	MRC	Mode Code	Requirements
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Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACTL J SECOND END SEAT RADIUS

Definition: THE RADIUS OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACTLJAA0.062*;
ACTLJAB0.062\$\$JAC0.072*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AC*, AG*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*

ACTM J THIRD END SEAT RADIUS

Definition: THE RADIUS OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACTMJAA0.062*;
ACTMJAB0.062\$\$JAC0.072*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES

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APP Key	MRC	Mode Code	Requirements		
L			MILLIMETERS		
Table 2					
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>		
	A		NOMINAL		
	B		MINIMUM		
	C		MAXIMUM		
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
ACTN	J	FOURTH END SEAT RADIUS			
Definition: THE RADIUS OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.					
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACTNJAA0.062*; ACTNJAB0.062\$\$JAC0.072*)					
Table 1					
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>		
	A		INCHES		
	L		MILLIMETERS		
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
CQMM	D	FIRST END THREAD SERIES DESIGNATOR			
Definition: A DESIGNATOR DISTINGUISHING ONE GROUP OF THREAD DIAMETER-PITCH COMBINATION FROM ANOTHER BY NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.					
Reply Instruction: Enter the applicable Reply Code from Appendix A , Table 3. (e.g., CQMMDSM*)					

APP	Key	MRC	Mode Code	Requirements
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	CRPF	D		SECOND END THREAD SERIES DESIGNATOR
				Definition: A DESIGNATOR DISTINGUISHING ONE GROUP OF THREAD DIAMETER-PITCH COMBINATION FROM ANOTHER BY NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.
				Reply Instruction: Enter the applicable Reply Code from Appendix A , Table 3. (e.g.,CRPFDSM*)
AC*, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	CSDF	D		THIRD END THREAD SERIES DESIGNATOR
				Definition: A DESIGNATOR DISTINGUISHING ONE GROUP OF THREAD DIAMETER-PITCH COMBINATION FROM ANOTHER BY NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.
				Reply Instruction: Enter the applicable Reply Code from Appendix A , Table 3. (e.g.,CSDFDSM*)
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	CQCR	D		FOURTH END THREAD SERIES DESIGNATOR
				Definition: A DESIGNATOR DISTINGUISHING ONE GROUP OF THREAD DIAMETER-PITCH COMBINATION FROM ANOTHER BY NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.
				Reply Instruction: Enter the applicable Reply Code from Appendix A , Table 3. (e.g.,CQCRDSTM*)
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	CQYM	J		FIRST END NOMINAL THREAD SIZE
				Definition: THE DESIGNATION WHICH IS USED FOR THE PURPOSE OF GENERAL IDENTIFICATION OF THE NOMINAL THREAD SIZE.
				Reply Instructions: Enter the applicable Reply Code form the table below, followed by the numeric value. (e.g.,CQYMJAO.750*; CQYML8.7*)

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
AA*, AB*, AC*, AD*, AE*, AF##*, AG*, AH*, AK*, AL*, AM*, AN##*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	CRNB	J	SECOND END NOMINAL THREAD SIZE
			Definition: THE DESIGNATION WHICH IS USED FOR THE PURPOSE OF GENERAL IDENTIFICATION OF THE NOMINAL THREAD SIZE.
			Reply Instructions: Enter the applicable Reply Code form the table below, followed by the numeric value. (e.g.,CRNBJAO.750*; CRNBJL8.7*)
AC*, AG*, AL*, AM*, AN##*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	CSCN	J	THIRD END NOMINAL THREAD SIZE
			Definition: THE DESIGNATION WHICH IS USED FOR THE PURPOSE OF GENERAL IDENTIFICATION OF THE NOMINAL THREAD SIZE.
			Reply Instructions: Enter the applicable Reply Code form the table below, followed by the numeric value. (e.g.,CSCNJA0.750*; CSCNJL8.7*)
AA*, AB*, AC*, AD*, AE*, AF##*, AG*, AH*, AK*, AL*, AM*, AN##*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	CQFH	J	FOURTH END NOMINAL THREAD SIZE
			Definition: THE DESIGNATION WHICH IS USED FOR THE PURPOSE OF GENERAL IDENTIFICATION OF THE NOMINAL THREAD SIZE.

APP Key	MRC	Mode Code	Requirements		
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CQFHJAO.750*; CQFHJL8.7*)					
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>		
		A	INCHES		
		L	MILLIMETERS		
 AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
CSQH	B	FIRST END THREAD PITCH IN MILLIMETERS			
Definition: THE DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE AXIS, EXPRESSED IN MILLIMETERS.					
Reply Instructions: Enter the numeric value. (e.g., CSQHB1.25*)					
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
CTDX	B	SECOND END THREAD PITCH IN MILLIMETERS			
Definition: THE DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE AXIS, EXPRESSED IN MILLIMETERS.					
Reply Instructions: Enter the numeric value. (e.g., CTDXB1.25*)					
AC*, AG*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
CTNH	B	THIRD END THREAD PITCH IN MILLIMETERS			
Definition: THE DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE AXIS, EXPRESSED IN MILLIMETERS.					
Reply Instructions: Enter the numeric value. (e.g., CTNHB1.25*)					
AA*, AB*, AC*, AD*, AE*, AF#, AG*, AH*, AK*, AL*, AM*, AN#, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*					
CTNR	B	FOURTH END THREAD PITCH IN MILLIMETERS			

APP Key	MRC	Mode Code	Requirements
Definition: THE DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE AXIS, EXPRESSED IN MILIMETERS.			
Reply Instructions: Enter the numeric value. (e.g., CTNRB1.25*)			
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*	CWBM	J	FIRST END THREAD TOLERANCE CLASS
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.			
Reply Instructions: Enter the applicable Reply Code form the table below, followed by the designator. (e.g., CWBMJNTE4H6H*)			
	<u>REPLY CODE</u>		<u>REPLY (AN73)</u>
	EXT		EXTERNAL
	NTE		INTERNAL
AA*, AB*, AC*, AD*, AE*, AF#*, AG*, AH*, AK*, AM*, AN#*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*			
CXNC	J		SECOND END THREAD TOLERANCE CLASS
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.			
Reply Instructions: Enter the applicable Reply Code form the table below, followed by the designator. (e.g., CXNCJNTE4H6H*)			
	<u>REPLY CODE</u>		<u>REPLY (AN73)</u>
	EXT		EXTERNAL
	NTE		INTERNAL
AC*, AG*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*			
CTNX	J		THIRD END THREAD TOLERANCE CLASS
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.			

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APP Key	MRC	Mode	Code	Requirements
Reply Instructions: Enter the applicable Reply Code form the table below, followed by the designator. (e.g., CTNXJNTE4H6H*)				
		<u>REPLY CODE</u>		<u>REPLY (AN73)</u>
		EXT		EXTERNAL
		NTE		INTERNAL
AA*	AB*	AC*	AD*	AE*, AF#*, AG*, AH*, AK*, AL*, AM*, AN#*, AP*, AQ*, AR*, AS*, AT*, AU*, AV*, AW*
CTPF	J			FOURTH END THREAD TOLERANCE CLASS
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.				
Reply Instructions: Enter the applicable Reply Code form the table below, followed by the designator. (e.g., CTPFJNTE4H6H*)				
		<u>REPLY CODE</u>		<u>REPLY (AN73)</u>
		EXT		EXTERNAL
		NTE		INTERNAL
ALL*				
FEAT	G			SPECIAL FEATURES
Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.				
Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)				
ALL*				
TEST	J			TEST DATA DOCUMENT

APP Key	MRC	Mode	Code	Requirements
Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.				
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.				
(e.g., TESTJA12345-CWX654321*; TESTJA1234A-654321\$\$JB5556A-663654*; TESTJAA2345-654321\$JB55566-663654*)				

<u>REPLY CODE</u>	<u>REPLY (AC28)</u>
A	SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)
B	STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)
C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)

ALL*

SPCL G SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

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APP Key	MRC	Mode	Code	Requirements
Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)				
ALL*				
ZZZK J SPECIFICATION/STANDARD DATA				
Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.				
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.				
(e.g., ZZZKJT81337-30642B*; ZZZKJS81349-MIL-D-180 REV1/CANCELED/*; ZZZKJP80205-NAS1103*; ZZZKJS81349-MIL-C-1140C/CE/*; ZZZKJT81337-30642B\$\$JP80205-NAS1103*)				

<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

APP	Key	MRC	Mode	Code	Requirements
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NOTE FOR MRC ZZZT: IF THE SPECIFICATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL* (See Note Above)

ZZZT J NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 8, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$\$JSTA*; ZZZTJTY1\$JSTA*)

ALL*

ZZZW G DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

ALL*

ZZZX G DEPARTURE FROM CITED DESIGNATOR

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

ALL*

APP Key	MRC	Mode Code	Requirements
ZZZY	G		REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS
Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.			
Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)			
ALL*			
CRTL	A		CRITICALITY CODE JUSTIFICATION
Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.			
Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)			
Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.			
NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.			
ALL* (See Note Above)			
PRPY	A		PROPRIETARY CHARACTERISTICS
Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.			

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APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)			
ALL*			
ELRN G EXTRA LONG REFERENCE NUMBER			
Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.			
Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).			
If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).			
In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.			
ALL*			
ELCD	D		EXTRA LONG CHARACTERISTIC DESCRIPTION
Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.			
Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)			
<u>REPLY CODE</u>		<u>REPLY (AN58)</u>	
A		ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD	

NOTE FOR MRC ENAC: ANSWERING THIS MRC WILL GENERATE AN ENAC CODE IN THE ITEM IDENTIFICATION SEGMENT (A) OF THE NSN.

ALL* (See Note Above)

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APP Key	MRC	Mode Code	Requirements								
ENAC	D		ENVIRONMENTAL ATTRIBUTE CODE								
Definition: INDICATES THE TYPE OF PRODUCT THAT MEETS OR EXCEEDS THE GOVERNMENT GUIDELINES FOR ENVIRONMENTALLY PREFERRED CHARACTERISTICS.											
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ENACDG4*)											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><u>REPLY CODE</u></td> <td style="width: 25%;"><u>REPLY (EN02)</u></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td>G4</td> <td></td> <td>COMPREHENSIVE PROCUREMENT GUIDELINE — VEHICULAR PRODUCTS — REBUILT VEHICULAR PARTS</td> <td></td> </tr> </table>				<u>REPLY CODE</u>	<u>REPLY (EN02)</u>			G4		COMPREHENSIVE PROCUREMENT GUIDELINE — VEHICULAR PRODUCTS — REBUILT VEHICULAR PARTS	
<u>REPLY CODE</u>	<u>REPLY (EN02)</u>										
G4		COMPREHENSIVE PROCUREMENT GUIDELINE — VEHICULAR PRODUCTS — REBUILT VEHICULAR PARTS									

SECTION III

APP Key	MRC	Mode Code	Requirements												
ALL															
AFJK															
J															
CUBIC MEASURE															
Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.															
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFJKJB8.000*;AFJKJC20.0*)															
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><u>REPLY CODE</u></td> <td style="width: 25%;"><u>REPLY (AD42)</u></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td>C</td> <td></td> <td>CUBIC CENTIMETERS</td> <td></td> </tr> <tr> <td>B</td> <td></td> <td>CUBIC INCHES</td> <td></td> </tr> </table>				<u>REPLY CODE</u>	<u>REPLY (AD42)</u>			C		CUBIC CENTIMETERS		B		CUBIC INCHES	
<u>REPLY CODE</u>	<u>REPLY (AD42)</u>														
C		CUBIC CENTIMETERS													
B		CUBIC INCHES													
ALL															
SUPP		G													
SUPPLEMENTARY FEATURES															

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APP Key	MRC	Mode Code	Requirements
Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.			
Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)			
ALL			
AGAV G END ITEM IDENTIFICATION			
Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS USED.			
Reply Instructions: Enter the applicable reply in clear text. (e.g., AGAVG3930-00-000-0000*; AGAVGFORKLIFTTRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)			
ALL			
ZZZV G FSC APPLICATION DATA			
Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.			
Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGBEARINGS, ANTIFRICTION, UNMOUNTED*)			
ALL			
CXCY G PART NAME ASSIGNED BY CONTROLLING AGENCY			
Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.			
Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD*)			
ALL			

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SECTION I

APP Key	MRC	Mode Code	Requirements								
HZRD	D		HAZARDOUS SUBSTANCES								
Definition: THE SUBSTANCES AND/OR MATERIALS CONTAINED IN THE ITEM THAT HAVE BEEN IDENTIFIED AS HAZARDOUS OR ENVIRONMENTALLY DAMAGING BY THE ENVIRONMENTAL PROTECTION AGENCY OR OTHER AUTHORIZED GOVERNMENT AGENCY.											
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., HZRDDHAZ042 *; HZRDDHAZ012\$\$DHAZ029*)											
<table><thead><tr><th><u>REPLY CODE</u></th><th><u>REPLY (HZ00)</u></th></tr></thead><tbody><tr><td>HAZ042</td><td>ASBESTOS</td></tr><tr><td>HAZ012</td><td>COPPER</td></tr><tr><td>HAZ029</td><td>LEAD</td></tr></tbody></table>				<u>REPLY CODE</u>	<u>REPLY (HZ00)</u>	HAZ042	ASBESTOS	HAZ012	COPPER	HAZ029	LEAD
<u>REPLY CODE</u>	<u>REPLY (HZ00)</u>										
HAZ042	ASBESTOS										
HAZ012	COPPER										
HAZ029	LEAD										

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Table 1 - MATERIALS

NOTE: FOR ALL AISI OR SAE STEELS, USE THE REPLY CODES ASSIGNED TO THE SAME NO COMPOSITION OR IDENTIFICATION NUMBER UNDER FEDERAL STANDARD 66.

MATERIALS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
AL0185	ALUMINUM ALLOY, AMS 4001
AL0186	ALUMINUM ALLOY, AMS 4023
AL0189	ALUMINUM ALLOY, QQ-A-200/1, ALLOY 3003, F
AL0188	ALUMINUM ALLOY, QQ-A-200/1, ALLOY 3003, H112
AL0187	ALUMINUM ALLOY, QQ-A-200/1, ALLOY 3003, 0
AL0030	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014
AL0191	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T4
AL0195	ALUMINUM ALLOY, QQ-A-200/2 ALLOY 2014, T6
AL0192	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T42
AL0196	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T62
AL0193	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T4510
AL0194	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T4511
AL0197	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T6510
AL0198	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T6511
AL0190	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, 0
AL0031	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024
AL0202	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T4
AL0203	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T42
AL0206	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T81
AL0200	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T3510
AL0201	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T3511
AL0204	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T8510
AL0205	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T8511
AL0199	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, 0
AL0032	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083
AL0208	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083, H111
AL0209	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083, H112
AL0207	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083, 0
AL0033	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086
AL0211	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086, H111
AL0212	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086, H112
AL0210	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086, 0
AL0034	ALUMINUM ALLOY, QQ-A-200/6, ALLOY 5454
AL0214	ALUMINUM ALLOY, QQ-A-200/6, ALLOY 5454, H111
AL0215	ALUMINUM ALLOY, QQ-A-200/6, ALLOY 5454, H112
AL0213	ALUMINUM ALLOY, QQ-A-200/6, ALLOY 5454, 0
AL0035	ALUMINUM ALLOY, QQ-A-200/7, ALLOY 5456
AL0217	ALUMINUM ALLOY, QQ-A-200/7, ALLOY 5456, H111
AL0218	ALUMINUM ALLOY, QQ-A-200/7, ALLOY 5456, H112

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0216	ALUMINUM ALLOY, QQ-A-200/7, ALLOY 5456, 0
AL0490	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061, T6
AL0037	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062
AL0220	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T4
AL0221	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T6
AL0222	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T42
AL0223	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T4510
AL0224	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T4511
AL0225	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T6510
AL0226	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T6511
AL0219	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, 0
AL0038	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063
AL0228	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T1
AL0229	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T4
AL0230	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T5
AL0231	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T6
AL0227	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, 0
AL0039	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066
AL0233	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T4
AL0237	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T6
AL0234	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T42
AL0238	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T62
AL0239	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T6510
AL0240	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T6511
AL0232	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, 0
AL0235	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, 4510
AL0236	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, 4511
AL0040	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075
AL0242	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, T6
AL0245	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, T73
AL0243	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, T6510
AL0244	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, T6511
AL0241	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, 0
AL0041	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079
AL0247	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079, T6
AL0248	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079, T6510
AL0249	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079, T6511
AL0246	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079, 0
AL0042	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178
AL0251	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178, T6
AL0252	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178, T6510
AL0253	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178, T6511
AL0250	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178, 0
AL0260	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, F
AL0255	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H12
AL0256	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H14
AL0257	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H16
AL0258	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H18

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0259	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H112
AL0254	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, 0
AL0267	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, F
AL0262	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H12
AL0263	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H14
AL0264	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H16
AL0265	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H18
AL0266	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H112
AL0261	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, 0
AL0268	ALUMINUM ALLOY, QQ-A-225/3, ALLOY 2011
AL0269	ALUMINUM ALLOY, QQ-A-225/3, ALLOY 2011, T3
AL0270	ALUMINUM ALLOY, QQ-A-225/3, ALLOY 2011, T8
AL0045	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014
AL0272	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, T4
AL0273	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, T6
AL0274	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, T651
AL0271	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, 0
AL0046	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017
AL0276	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, T4
AL0277	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, T451
AL0275	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, 0
AL0047	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024
AL0280	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T4
AL0281	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T6
AL0279	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T351
AL0282	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T851
AL0278	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, 0
AL0288	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, F
AL0284	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H32
AL0285	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H34
AL0286	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H36
AL0287	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H38
AL0283	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, 0
AL0049	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061
AL0290	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T4
AL0293	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T6
AL0291	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T42
AL0292	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T451
AL0294	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T651
AL0289	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, 0
AL0050	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075
AL0296	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T6
AL0298	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T73
AL0297	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T651
AL0295	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, 0
AL0309	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, F
AL0300	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H12
AL0301	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H14

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0302	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H16
AL0303	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H18
AL0304	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H22
AL0305	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H24
AL0306	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H26
AL0307	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H28
AL0308	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H112
AL0299	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, 0
AL0319	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, F
AL0311	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H12
AL0312	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H14
AL0313	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H16
AL0314	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H18
AL0315	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H22
AL0316	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H24
AL0317	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H26
AL0318	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H28
AL0320	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H112
AL0310	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, 0
AL0330	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, F
AL0323	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T3
AL0324	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T4
AL0326	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T6
AL0325	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T42
AL0327	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T62
AL0328	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T451
AL0329	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T651
AL0322	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, 0
AL0342	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, F
AL0332	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T3
AL0334	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T4
AL0333	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T36
AL0335	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T42
AL0336	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T62
AL0337	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T72
AL0338	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T81
AL0339	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T86
AL0340	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T351
AL0341	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T851
AL0331	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, 0
AL0354	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, F
AL0345	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T3
AL0347	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T4
AL0346	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T36
AL0348	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T42
AL0349	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T62
AL0350	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T81
AL0351	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T86

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0352	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T351
AL0353	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, T851
AL0344	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, 0
AL0054	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083
AL0359	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H112
AL0356	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H321
AL0357	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H323
AL0358	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H343
AL0355	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, 0
AL0055	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086
AL0361	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H32
AL0362	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H34
AL0363	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H36
AL0364	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H112
AL0360	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, 0
AL0375	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, F
AL0366	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H22
AL0367	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H24
AL0368	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H26
AL0369	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H28
AL0370	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H32
AL0371	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H34
AL0372	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H36
AL0373	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H38
AL0374	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H112
AL0365	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, 0
AL0057	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456
AL0377	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, H112
AL0378	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, H321
AL0379	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, H323
AL0380	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, H343
AL0376	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, 0
AL0058	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454
AL0382	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454, H32
AL0383	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454, H34
AL0384	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454, H112
AL0381	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454, 0
AL0391	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, F
AL0386	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T4
AL0387	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T6
AL0388	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T42
AL0389	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T451
AL0390	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T651
AL0385	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, 0
AL0395	ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, F
AL0393	ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, T6
AL0394	ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, T651
AL0392	ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, 0

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0400	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, F
AL0398	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, T6
AL0399	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, T651
AL0397	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, 0
AL0404	ALUMINUM ALLOY, QQ-A-250/14, ALLOY 7178, F
AL0402	ALUMINUM ALLOY, QQ-A-250/14, ALLOY 7178, T6
AL0403	ALUMINUM ALLOY, QQ-A-250/14, ALLOY 7178, T651
AL0401	ALUMINUM ALLOY, QQ-A-250/14, ALLOY 7178, 0
AL0409	ALUMINUM ALLOY, QQ-A-250/15, ALLOY ALCLAD 7178, F
AL0405	ALUMINUM ALLOY, QQ-A-250/15, ALLOY ALCLAD 7178, T6
AL0408	ALUMINUM ALLOY, QQ-A-250/15, ALLOY ALCLAD 7178, T651
AL0407	ALUMINUM ALLOY, QQ-A-250/15, ALLOY ALCLAD 7178, 0
AL0413	ALUMINUM ALLOY, QQ-A-250/17, ALLOY 7079, F
AL0411	ALUMINUM ALLOY, QQ-A-250/17, ALLOY 7079, T6
AL0412	ALUMINUM ALLOY, QQ-A-250/17, ALLOY 7079, T651
AL0410	ALUMINUM ALLOY, QQ-A-250/17, ALLOY 7079, 0
AL0418	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, F
AL0416	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, T6
AL0417	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, T651
AL0415	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, 0
AL0419	ALUMINUM ALLOY, QQ-A-367, COMP 2014, T4
AL0420	ALUMINUM ALLOY, QQ-A-367, COMP 2014, T6
AL0421	ALUMINUM ALLOY, QQ-A-367, COMP 2014, T652
AL0422	ALUMINUM ALLOY, QQ-A-367, COMP 2018, T61
AL0423	ALUMINUM ALLOY, QQ-A-367, COMP 2025, T6
AL0424	ALUMINUM ALLOY, QQ-A-367, COMP 2218, T61
AL0425	ALUMINUM ALLOY, QQ-A-367, COMP 2219, T6
AL0426	ALUMINUM ALLOY, QQ-A-367, COMP 2219, T852
AL0427	ALUMINUM ALLOY, QQ-A-367, COMP 2618, T61
AL0428	ALUMINUM ALLOY, QQ-A-367, COMP 4032, T6
AL0429	ALUMINUM ALLOY, QQ-A-367, COMP 5083, H111
AL0430	ALUMINUM ALLOY, QQ-A-367, COMP 5083, H112
AL0431	ALUMINUM ALLOY, QQ-A-367, COMP 6061, T6
AL0433	ALUMINUM ALLOY, QQ-A-367, COMP 6061, T6
AL0432	ALUMINUM ALLOY, QQ-A-367, COMP 6061, T652
AL0434	ALUMINUM ALLOY, QQ-A-367, COMP 6151, T6
AL0435	ALUMINUM ALLOY, QQ-A-367, COMP 7075, T6
AL0436	ALUMINUM ALLOY, QQ-A-367, COMP 7075, T73
AL0437	ALUMINUM ALLOY, QQ-A-367, COMP 7075, T652
AL0438	ALUMINUM ALLOY, QQ-A-367, COMP 7076, T61
AL0439	ALUMINUM ALLOY, QQ-A-367, COMP 7079, T6
AL0440	ALUMINUM ALLOY, QQ-A-367, COMP 7079, T652
AL0102	ALUMINUM ALLOY, 2024
AL0694	ALUMINUM ALLOY, 2024, T4
ALA000	ALUMINUM BRONZE
AL0176	ALUMINUM BRONZE, ASTM B-148-52, ALLOY 9B
AL1160	ALUMINUM BRONZE, QQ-A-630, COMP 2-CANCELED
AL0441	ALUMINUM BRONZE, QQ-B-671, CLASS 1, AS CAST-CANCELED

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0442	ALUMINUM BRONZE, QQ-B-671, CLASS 2, AS CAST-CANCELED
AL0443	ALUMINUM BRONZE, QQ-B-671, CLASS 2, HEAT TREATED-CANCELED
AL0444	ALUMINUM BRONZE, QQ-B-671, CLASS 3, AS CAST-CANCELED
AL0445	ALUMINUM BRONZE, QQ-B-671, CLASS 3, HEAT TREATED-CANCELED
AL0446	ALUMINUM BRONZE, QQ-B-671, CLASS 4, AS CAST-CANCELED
AL0447	ALUMINUM BRONZE, QQ-B-671, CLASS 4, HEAT TREATED-CANCELED
AL0448	ALUMINUM BRONZE, QQ-B-679, COMP 1-CANCELED
AL0175	ALUMINUM BRONZE, QQ-B-679, COMP 2-CANCELED
AL0449	ALUMINUM BRONZE, QQ-B-679, COMP 3-CANCELED
AL0450	ALUMINUM BRONZE, QQ-B-679, COMP 5-CANCELED
ALAP00	ALUMINUM SILICON BRONZE ALLOY
A	ANY ACCEPTABLE
AS0000	ASBESTOS
BC0000	BERYLLIUM COPPER
BR0000	BRASS
BR0074	BRASS, ASTM B16-60, 1/2H
BR0486	BRASS, ASTM B124, ALLOY NO. 2
BR0221	BRASS, MIL-V-17834, ALLOY 4A
BR0222	BRASS, MIL-V-17834, ALLOY 4B
BR0223	BRASS, MIL-V-17834, ALLOY 5A
BR0224	BRASS, MIL-V-17834, ALLOY 5B
BR0225	BRASS, MIL-V-17834, ALLOY 6A
BRA000	BRASS OR BRONZE
BR0077	BRASS, QQ-B-613, ALLOY 230, HARD
BR0076	BRASS, QQ-B-613, ALLOY 230, 1/2H
BR0075	BRASS, QQ-B-613, ALLOY 230, 1/4H
BR0080	BRASS, QQ-B-613, ALLOY 240, HARD
BR0079	BRASS, QQ-B-613, ALLOY 240, 1/2H
BR0078	BRASS, QQ-B-613, ALLOY 240, 1/4H
BR0081	BRASS, QQ-B-613, ALLOY 260, ANNEALED
BR0085	BRASS, QQ-B-613, ALLOY 260, EXTRA-HARD
BR0087	BRASS, QQ-B-613, ALLOY 260, EXTRA-SPRING
BR0084	BRASS, QQ-B-613, ALLOY 260, HARD
BR0086	BRASS, QQ-B-613, ALLOY 260, SPRING
BR0083	BRASS, QQ-B-613, ALLOY 260, 1/2H
BR0082	BRASS, QQ-B-613, ALLOY 260, 1/4H
BR0091	BRASS, QQ-B-613, ALLOY 268, EXTRA-HARD
BR0093	BRASS, QQ-B-613, ALLOY 268, EXTRA-SPRING
BR0090	BRASS, QQ-B-613, ALLOY 268, HARD
BR0092	BRASS, QQ-B-613, ALLOY 268, SPRING
BR0089	BRASS, QQ-B-613, ALLOY 268, 1/2H
BR0088	BRASS, QQ-B-613, ALLOY 268, 1/4H
BR0096	BRASS, QQ-B-613, ALLOY 342, EXTRA-HARD
BR0111	BRASS, QQ-B-613, ALLOY 342, HARD
BR0095	BRASS, QQ-B-613, ALLOY 342, 1/2H
BR0094	BRASS, QQ-B-613, ALLOY 342, 1/4H
BR0100	BRASS, QQ-B-613, ALLOY 353, EXTRA-HARD
BR0099	BRASS, QQ-B-613, ALLOY 353, HARD

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
BR0098	BRASS, QQ-B-613, ALLOY 353, 1/2H
BR0097	BRASS, QQ-B-613, ALLOY 353, 1/4H
BR0106	BRASS, QQ-B-613, COMP 11, EXTRA-HARD
BR0105	BRASS, QQ-B-613, COMP 11, HARD
BR0102	BRASS, QQ-B-613, COMP 11, LIGHT ANNEALED
BR0101	BRASS, QQ-B-613, COMP 11, SOFT ANNEALED
BR0107	BRASS, QQ-B-613, COMP 11, SPRING
BR0104	BRASS, QQ-B-613, COMP 11, 1/2H
BR0103	BRASS, QQ-B-613, COMP 11, 1/4H
BR0013	BRASS, QQ-B-621, CLASS A-CANCELED
BR0014	BRASS, QQ-B-621, CLASS B-CANCELED
BR0015	BRASS, QQ-B-621, CLASS C-CANCELED
BR0108	BRASS, QQ-B-626, ALLOY 230, SOFT
BR0109	BRASS, QQ-B-626, ALLOY 230, 1/2H
BR0110	BRASS, QQ-B-626, ALLOY 240, SOFT
BR0112	BRASS, QQ-B-626, ALLOY 240, 1/2H
BR0115	BRASS, QQ-B-626, ALLOY 260, HARD
BR0113	BRASS, QQ-B-626, ALLOY 260, SOFT
BR0114	BRASS, QQ-B-626, ALLOY 260, 1/2H
BR0118	BRASS, QQ-B-626, ALLOY 268, HARD
BR0116	BRASS, QQ-B-626, ALLOY 268, SOFT
BR0117	BRASS, QQ-B-626, ALLOY 268, 1/2H
BR0119	BRASS, QQ-B-626, ALLOY 342, SOFT
BR0120	BRASS, QQ-B-626, ALLOY 342, 1/2H
BR0121	BRASS, QQ-B-626, ALLOY 353, SOFT
BR0122	BRASS, QQ-B-626, ALLOY 353, 1/2H
BR0124	BRASS, QQ-B-626, ALLOY 360, HARD
BR0123	BRASS, QQ-B-626, ALLOY 360, SOFT
BR0155	BRASS, QQ-B-626, ALLOY 360, 1/2H
BR0189	BRASS, QQ-B-626, ALLOY 377
BR0125	BRASS, QQ-B-626, ALLOY 377, SOFT
BR0126	BRASS, QQ-B-626, ALLOY 377, 1/2H
BR0037	BRASS, QQ-B-626, CLASS C
BR0336	BRASS, QQ-B-626, COMP 2
BR0127	BRASS, QQ-B-626, COMP 11, SOFT
BR0040	BRASS, QQ-B-626, COMP 11, 1/2H
BR0017	BRASS, QQ-B-626, COMP 21
BR0018	BRASS, QQ-B-626, COMP 22
BR0041	BRASS, QQ-B-626, COMP 22, 1/2H-CANCELED
BR0131	BRASS, QQ-B-637, ALLOY 462, HARD
BR0129	BRASS, QQ-B-637, ALLOY 462, SOFT
BR0130	BRASS, QQ-B-637, ALLOY 462, 1/2H
BR0134	BRASS, QQ-B-637, ALLOY 464, HARD
BR0132	BRASS, QQ-B-637, ALLOY 464, SOFT
BR0133	BRASS, QQ-B-637, ALLOY 464, 1/2H
BR0137	BRASS, QQ-B-637, ALLOY 482, HARD
BR0135	BRASS, QQ-B-637, ALLOY 482, SOFT
BR0136	BRASS, QQ-B-637, ALLOY 482, 1/2H

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
BR0140	BRASS, QQ-B-637, ALLOY 485, HARD
BR0138	BRASS, QQ-B-637, ALLOY 485, SOFT
BR0139	BRASS, QQ-B-637, ALLOY 485, 1/2H
BR0143	BRASS, QQ-B-639, ALLOY 462, HARD
BR0141	BRASS, QQ-B-639, ALLOY 462, SOFT
BR0142	BRASS, QQ-B-639, ALLOY 462, 1/2H
BR0146	BRASS, QQ-B-639, ALLOY 464, HARD
BR0144	BRASS, QQ-B-639, ALLOY 464, SOFT
BR0145	BRASS, QQ-B-639, ALLOY 464, 1/2H
BR0149	BRASS, QQ-B-639, ALLOY 482, HARD
BR0147	BRASS, QQ-B-639, ALLOY 482, SOFT
BR0148	BRASS, QQ-B-639, ALLOY 482, 1/2H
BR0152	BRASS, QQ-B-639, ALLOY 485, HARD
BR0150	BRASS, QQ-B-639, ALLOY 485, SOFT
BR0151	BRASS, QQ-B-639, ALLOY 485, 1/2H
BR0033	BRASS, SAE CA360
BR0153	BRASS, SAE 40
BR0154	BRASS SAE 64
BN0000	BRONZE
BN0014	BRONZE, ASTM B61
BN0015	BRONZE, ASTM B62
BN0016	BRONZE, ASTM B63
BN0013	BRONZE, ASTM B149
BN0023	BRONZE, MIL-B-16261, GRADE 1-CANCELED
BN0024	BRONZE, MIL-B-16261, GRADE 2-CANCELED
BN0025	BRONZE, MIL-B-16261, GRADE 3-CANCELED
BN0026	BRONZE, MIL-B-16261, GRADE 4-CANCELED
BN0027	BRONZE, MIL-B-16261, GRADE 5-CANCELED
BN0028	BRONZE, MIL-B-16261, GRADE 6-CANCELED
BN0086	BRONZE, MIL-B-16444
BN0029	BRONZE, QQ-B-1005, COMP 1-CANCELED
BN0030	BRONZE, QQ-B-1005, COMP 2-CANCELED
BN0031	BRONZE, QQ-B-1005, COMP 3-CANCELED
BN0032	BRONZE, QQ-B-1005, COMP 4-CANCELED
BN0033	BRONZE, QQ-B-1005, COMP 5-CANCELED
BN0034	BRONZE, QQ-B-1005, COMP 6-CANCELED
BN0035	BRONZE, QQ-B-1005, COMP 7-CANCELED
BN0036	BRONZE, QQ-B-1005, COMP 8-CANCELED
BN0037	BRONZE, QQ-B-1005, COMP 9-CANCELED
BN0038	BRONZE, QQ-B-1005, COMP 10-CANCELED
BN0039	BRONZE, QQ-B-1005, COMP 11-CANCELED
BN0040	BRONZE, QQ-B-1005, COMP 12-CANCELED
BN0041	BRONZE, QQ-B-1005, COMP 13-CANCELED
BN0042	BRONZE, QQ-B-1005, COMP 14-CANCELED
BN0043	BRONZE, QQ-B-1005, COMP 15-CANCELED
BN0044	BRONZE, QQ-B-1005, COMP 16-CANCELED
BN0045	BRONZE, QQ-B-1005, COMP 17-CANCELED
BN0046	BRONZE, QQ-B-1005, COMP 18-CANCELED

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
BN0047	BRONZE, QQ-B-1005, COMP 19-CANCELED
CAB000	CARBON MOLYBDENUM
DFAAK0	CLOTH, NYLON
CMA000	COBALT ALLOY (includes stellite, colmonoy)
CU0000	COPPER
CK0000	COPPER ALLOY
CK0928	COPPER ALLOY, ASTM B283
CK0001	COPPER ALLOY, QQ-C-523, ALLOY A
CK0002	COPPER ALLOY, QQ-C-523, ALLOY B
CK0003	COPPER ALLOY, QQ-C-523, ALLOY C
CK0004	COPPER ALLOY, QQ-C-523, ALLOY D
CK0005	COPPER ALLOY, QQ-C-523, ALLOY E
CK0006	COPPER ALLOY, QQ-C-523, ALLOY F
CK0007	COPPER ALLOY, QQ-C-525, COMP 1
CK0008	COPPER ALLOY, QQ-C-525, COMP 3
CK0009	COPPER ALLOY, QQ-C-525, COMP 5
CK0010	COPPER ALLOY, QQ-C-525, COMP 8
CK0011	COPPER ALLOY, QQ-C-525, COMP 9
CK0012	COPPER ALLOY, QQ-C-525, COMP 10
CK0013	COPPER ALLOY, QQ-C-525, COMP 11
CK0014	COPPER ALLOY, QQ-C-525, COMP 12
CK0015	COPPER ALLOY, QQ-C-525, COMP 13
CU0013	COPPER, QQ-C-521, GRADE A
FE0000	IRON
FEA000	IRON, CAST
FE0038	IRON, CAST, ASTM A126, CLASS C
FE0013	IRON, CAST, ASTM A126-61T, CLASS A
FE0014	IRON, CAST, ASTM A126-61T, CLASS B
FE0001	IRON, CAST, QQ-I-652, CLASS 20
FE0002	IRON, CAST, QQ-I-652, CLASS 25
FE0003	IRON, CAST, QQ-I-652, CLASS 30
FE0004	IRON, CAST, QQ-I-652, CLASS 35
FE0005	IRON, CAST, QQ-I-652, CLASS 40
FE0006	IRON, CAST, QQ-I-652, CLASS 45
FE0007	IRON, CAST, QQ-I-652, CLASS 50
FE0008	IRON, CAST, QQ-I-652, CLASS 60
FEF000	IRON, DUCTILE
FEC000	IRON, MALLEABLE
FE0011	IRON, MALLEABLE, ASTM A197
FE0040	IRON, MALLEABLE, QQ-I-666, GRADE 1
FE0041	IRON, MALLEABLE, QQ-I-666, GRADE 1G
FE0042	IRON, MALLEABLE, QQ-I-666, GRADE 2
FE0039	IRON, MALLEABLE, SAE 32510
FEB000	IRON, WROUGHT
PB0000	LEAD
PB0001	LEAD, QQ-L-201, GRADE B
PB0002	LEAD, QQ-L-201, GRADE C
LR0000	LEATHER

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
LN0000	LINEN
MG0000	MAGNESIUM
MG0009	MAGNESIUM, QQ-M-40, AZ31B
MG0010	MAGNESIUM, QQ-M-40, AZ31C
MG0005	MAGNESIUM, QQ-M-40, AZ61A
MG0007	MAGNESIUM, QQ-M-40, MIA
MG0008	MAGNESIUM, QQ-M-40, ZK60A
MNA000	MANGANESE BRONZE
MN0009	MANGANESE BRONZE, QQ-M-80
NF0000	NICKEL
NC0000	NICKEL COPPER ALLOY
NC0007	NICKEL COPPER ALLOY, AMS 4674B
NC0018	NICKEL COPPER ALLOY, MIL-N-894-CANCELED
NC0005	NICKEL COPPER ALLOY, (monel) QQ-N-286, CLASS A
NC0006	NICKEL COPPER ALLOY, (monel) QQ-N-286, CLASS B
NC0003	NICKEL COPPER ALLOY, QQ-N-281, CLASS A
NC0004	NICKEL COPPER ALLOY, QQ-N-281, CLASS B
NC0008	NICKEL COPPER ALLOY, QQ-N-288, COMP A
NC0009	NICKEL COPPER ALLOY, QQ-N-288, COMP B
NC0010	NICKEL COPPER ALLOY, QQ-N-288, COMP C
NC0011	NICKEL COPPER ALLOY, QQ-N-288, COMP D
NC0012	NICKEL COPPER ALLOY, QQ-N-288, COMP E
NM0000	NONMETALLIC
PZ0000	PHOSPHOR BRONZE
PZ0014	PHOSPHOR BRONZE, MIL-B-16540, GRADE A
PZ0015	PHOSPHOR BRONZE, MIL-B-16540, GRADE B
PZ0018	PHOSPHOR BRONZE, QQ-B-750, COMP A, HARD
PZ0017	PHOSPHOR BRONZE, QQ-B-750, COMP A, SOFT
PZ0019	PHOSPHOR BRONZE, QQ-B-750, COMP A, SPRING
PZ0020	PHOSPHOR BRONZE, QQ-B-750, COMP B, HARD
PZ0022	PHOSPHOR BRONZE, QQ-B-750, COMP D, HARD
PZ0021	PHOSPHOR BRONZE, QQ-B-750, COMP D, SOFT
PZ0016	PHOSPHOR BRONZE, SAE 64
PC0000	PLASTIC
PC0128	PLASTIC, L-P-509, TYPE 1, GRADE XX
PC0628	PLASTIC, MIL-P-15047
PCAE00	PLASTIC, POLYAMIDE
PCCR00	PLASTIC, POLYEHTYLENE
PCAB00	PLASTIC, POLYESTER
PCAF00	PLASTIC, POLYPROPYLENE
PCAHO0	PLASTIC, POLYTETRAFLUOROETHYLENE
PCAM00	PLASTIC, POLYVINYL ACETATE
PCAN00	PLASTIC, POLYVINYL ALCOHOL
PCAOK00	PLASTIC, POLYVINYL CHLORIDE
PCAL00	PLASTIC, POLYVINYLDENE CHLORIDE
PCAAAL	PLASTIC, TETRAFLUOROETHYLENE
PCAAAX	PLASTIC, VINYL
PL0000	POLYAMIDE NYLON

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
RD0001	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RCOCR-A
RD0002	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RCOCR-C
RD0006	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RFECRCO
RD0005	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RFEMO-C
RD0003	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RNICR-B
RD0004	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RNICR-C
RC0000	RUBBER
RC0027	RUBBER, ASTM D735-59T, GRADE SC615B
RCL000	RUBBER, BUNA-N
RCM000	RUBBER, BUNA-S
RCH000	RUBBER, CHLOROPRENE (neoprene)
RC4252	RUBBER, COMP 1, CRANE CO
RCR000	RUBBER, COMPOSITION
RCQ000	RUBBER, HYDROCHLORIDE
RC0013	RUBBER, MIL-R-2765
RCC000	RUBBER, SYNTHETIC
SLJ000	SILICON
SLA000	SILICONE
ST0000	STEEL
ST7024	STEEL, AISI 303S
ST6758	STEEL, AISI 303SE
ST3845	STEEL, AISI 304
ST6775	STEEL, AISI 410
ST6783	STEEL, AISI 440C
ST0038	STEEL, AISI 8637
ST7487	STEEL, AMS 5354
ST2016	STEEL, AMS 5640
ST1915	STEEL, AMS 5642, TYPE 1
ST1916	STEEL, AMS 5642, TYPE 2
ST1917	STEEL, AMS 5643
ST1606	STEEL, AMS 5735
ST1607	STEEL, AMS 5736
ST1608	STEEL, AMS 5737
ST1910	STEEL, AMS 6260
ST1911	STEEL, AMS 6320
ST1912	STEEL, AMS 6324
ST2037	STEEL, AMS 6330
ST1913	STEEL, AMS 6342
ST0922	STEEL, AMS 6350
ST0923	STEEL, AMS 6357
ST2038	STEEL, AMS 6418
ST8015	STEEL, AMS 7445
ST2137	STEEL, ASTM A105, GRADE 1
ST2138	STEEL, ASTM A105, GRADE 2
ST2139	STEEL, ASTM A181, GRADE 1
ST2140	STEEL, ASTM A181, GRADE 2
ST2039	STEEL, ASTM A182, GRADE F1
ST2235	STEEL, ASTM A182, GRADE F5

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2236	STEEL, ASTM A182, GRADE F5A
ST2237	STEEL, ASTM A182, GRADE F6
ST2238	STEEL, ASTM A182, GRADE F7
ST2239	STEEL, ASTM A182, GRADE F9
ST2241	STEEL, ASTM A182, GRADE F10
ST2040	STEEL, ASTM A182, GRADE F11
ST2041	STEEL, ASTM A182, GRADE F12
ST2042	STEEL, ASTM A182, GRADE F21
ST0984	STEEL, ASTM A182, GRADE F22
ST2240	STEEL, ASTM A182, GRADE F304
ST2242	STEEL, ASTM A182, GRADE F304H
ST2243	STEEL, ASTM A182, GRADE F304L
ST2244	STEEL, ASTM A182, GRADE F310
ST2245	STEEL, ASTM A182, GRADE F316
ST2246	STEEL, ASTM A182, GRADE F316H
ST2247	STEEL, ASTM A182, GRADE F316L
ST2248	STEEL, ASTM A182, GRADE F321
ST2249	STEEL, ASTM A182, GRADE F321H
ST2250	STEEL, ASTM A182, GRADE F347
ST2251	STEEL, ASTM A182, GRADE F348
ST2252	STEEL, ASTM A182, GRADE F348H
ST2043	STEEL, ASTM A216, GRADE WCA
ST2044	STEEL, ASTM A216, GRADE WCB
ST2254	STEEL, ASTM A217, GRADE C5
ST2255	STEEL, ASTM A217, GRADE C12
ST2045	STEEL, ASTM A217, GRADE WC1
ST2046	STEEL, ASTM A217, GRADE WC4
ST2047	STEEL, ASTM A217, GRADE WC5
ST2048	STEEL, ASTM A217, GRADE WC6
ST2049	STEEL, ASTM A217, GRADE WC9
ST2050	STEEL, ASTM A335, GRADE P1
ST2051	STEEL, ASTM A335, GRADE P2
ST2256	STEEL, ASTM A335, GRADE P5
ST2257	STEEL, ASTM A335, GRADE P5B
ST2258	STEEL, ASTM A335, GRADE P5C
ST2259	STEEL, ASTM A335, GRADE P7
ST2260	STEEL, ASTM A335, GRADE P9
ST2052	STEEL, ASTM A335, GRADE P11
ST2053	STEEL, ASTM A335, GRADE P12
ST2054	STEEL, ASTM A335, GRADE P15
ST2055	STEEL, ASTM A335, GRADE P21
ST2056	STEEL, ASTM A335, GRADE P22
ST2141	STEEL, ASTM A350, GRADE LF1
ST2142	STEEL, ASTM A350, GRADE LF2
ST2057	STEEL, ASTM A350, GRADE LF3
ST2058	STEEL, ASTM A350, GRADE LF4
ST2261	STEEL, ASTM A351, GRADE CA15
ST2262	STEEL, ASTM A351, GRADE CF3

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2264	STEEL, ASTM A351, GRADE CF3M
ST2263	STEEL, ASTM A351, GRADE CF8
ST2266	STEEL, ASTM A351, GRADE CF8C
ST2265	STEEL, ASTM A351, GRADE CF8M
ST2272	STEEL, ASTM A351, GRADE CF10MC
ST2267	STEEL, ASTM A351, GRADE CH8
ST2269	STEEL, ASTM A351, GRADE CH10
ST2268	STEEL, ASTM A351, GRADE CH20
ST2270	STEEL, ASTM A351, GRADE CK45
ST2271	STEEL, ASTM A351, GRADE CT35
ST2143	STEEL, ASTM A352, GRADE LCB
ST2059	STEEL, ASTM A352, GRADE LC1
ST2060	STEEL, ASTM A352, GRADE LC2
ST2061	STEEL, ASTM A352, GRADE LC3
STB000	STEEL, CORROSION RESISTING
STD520	STEEL, CORROSION RESISTING, 304, CRYOLAB DIV OF CRYENCO
ST2144	STEEL, FED STD 66, AISI B1006
ST2145	STEEL, FED STD 66, AISI B1010
ST2024	STEEL, FED STD 66, AISI B1111
ST1933	STEEL, FED STD 66, AISI B1112, 1212/SAE 1112
ST1304	STEEL, FED STD 66, AISI B1113, 1213/SAE 1113
ST0616	STEEL, FED STD 66, AISI MT 1010
ST0617	STEEL, FED STD 66, AISI MT 1015
ST0618	STEEL, FED STD 66, AISI MT 1020
ST0614	STEEL, FED STD 66, AISI MTX 1015
ST0615	STEEL, FED STD 66, AISI MTX 1020
ST1359	STEEL, FED STD 66, AISI/SAE E4340
ST1360	STEEL, FED STD 66, AISI/SAE E4340H
ST1422	STEEL, FED STD 66, AISI/SAE E51100
ST1423	STEEL, FED STD 66, AISI/SAE E52100
ST2079	STEEL, FED STD 66, AISI/SAE 50B44
ST2080	STEEL, FED STD 66, AISI/SAE 50B44H
ST2081	STEEL, FED STD 66, AISI/SAE 50B46
ST2082	STEEL, FED STD 66, AISI/SAE 50B46H
ST2083	STEEL, FED STD 66, AISI/SAE 50B50
ST2084	STEEL, FED STD 66, AISI/SAE 50B50H
ST2085	STEEL, FED STD 66, AISI/SAE 50B60
ST2086	STEEL, FED STD 66, AISI/SAE 50B60H
ST1424	STEEL, FED STD 66, AISI/SAE 51B60
ST1425	STEEL, FED STD 66, AISI/SAE 51B60H
ST2093	STEEL, FED STD 66, AISI/SAE 81B45
ST2094	STEEL, FED STD 66, AISI/SAE 81B45H
ST2104	STEEL, FED STD 66, AISI/SAE 94B17
ST2105	STEEL, FED STD 66, AISI/SAE 94B17H
ST2106	STEEL, FED STD 66, AISI/SAE 94B30
ST2107	STEEL, FED STD 66, AISI/SAE 94B30H
ST1288	STEEL, FED STD 66, AISI/SAE 1006
ST1290	STEEL, FED STD 66, AISI/SAE 1008

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1291	STEEL, FED STD 66, AISI/SAE 1010
ST1928	STEEL, FED STD 66, AISI/SAE 1012
ST1292	STEEL, FED STD 66, AISI/SAE 1015
ST1293	STEEL, FED STD 66, AISI/SAE 1016
ST2018	STEEL, FED STD 66, AISI/SAE 1017
ST1294	STEEL, FED STD 66, AISI/SAE 1018
ST1929	STEEL, FED STD 66, AISI/SAE 1019
ST1930	STEEL, FED STD 66, AISI/SAE 1020
ST2019	STEEL, FED STD 66, AISI/SAE 1021
ST1931	STEEL, FED STD 66, AISI/SAE 1022
ST2020	STEEL, FED STD 66, AISI/SAE 1023
ST2021	STEEL, FED STD 66, AISI/SAE 1024
ST1295	STEEL, FED STD 66, AISI/SAE 1025
ST2146	STEEL, FED STD 66, AISI/SAE 1026
ST2147	STEEL, FED STD 66, AISI/SAE 1027
ST2148	STEEL, FED STD 66, AISI/SAE 1029
ST1296	STEEL, FED STD 66, AISI/SAE 1030
ST1297	STEEL, FED STD 66, AISI/SAE 1035
ST2152	STEEL, FED STD 66, AISI/SAE 1036
ST2153	STEEL, FED STD 66, AISI/SAE 1037
ST2154	STEEL, FED STD 66, AISI/SAE 1038
ST2155	STEEL, FED STD 66, AISI/SAE 1039
ST1298	STEEL, FED STD 66, AISI/SAE 1040
ST2156	STEEL, FED STD 66, AISI/SAE 1041
ST2157	STEEL, FED STD 66, AISI/SAE 1042
ST2158	STEEL, FED STD 66, AISI/SAE 1043
ST2159	STEEL, FED STD 66, AISI/SAE 1044
ST1299	STEEL, FED STD 66, AISI/SAE 1045
ST2160	STEEL, FED STD 66, AISI/SAE 1046
ST2161	STEEL, FED STD 66, AISI/SAE 1048
ST2162	STEEL, FED STD 66, AISI/SAE 1049
ST1300	STEEL, FED STD 66, AISI/SAE 1050
ST2163	STEEL, FED STD 66, AISI/SAE 1051
ST2164	STEEL, FED STD 66, AISI/SAE 1052
ST2165	STEEL, FED STD 66, AISI/SAE 1053
ST2166	STEEL, FED STD 66, AISI/SAE 1054
ST2167	STEEL, FED STD 66, AISI/SAE 1055
ST2169	STEEL, FED STD 66, AISI/SAE 1060
ST1301	STEEL, FED STD 66, AISI/SAE 1070
ST2179	STEEL, FED STD 66, AISI/SAE 1078
ST2180	STEEL, FED STD 66, AISI/SAE 1080
ST2181	STEEL, FED STD 66, AISI/SAE 1084
ST2184	STEEL, FED STD 66, AISI/SAE 1090
ST1302	STEEL, FED STD 66, AISI/SAE 1095
ST1303	STEEL, FED STD 66, AISI/SAE 1109
ST2017	STEEL, FED STD 66, AISI/SAE 1110
ST2025	STEEL, FED STD 66, AISI/SAE 1116
ST1726	STEEL, FED STD 66, AISI/SAE 1117

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1727	STEEL, FED STD 66, AISI/SAE 1118
ST2186	STEEL, FED STD 66, AISI/SAE 1119
ST2187	STEEL, FED STD 66, AISI/SAE 1132
ST1310	STEEL, FED STD 66, AISI/SAE 1137
ST2188	STEEL, FED STD 66, AISI/SAE 1139
ST2189	STEEL, FED STD 66, AISI/SAE 1140
ST1311	STEEL, FED STD 66, AISI/SAE 1141
ST1312	STEEL, FED STD 66, AISI/SAE 1144
ST2190	STEEL, FED STD 66, AISI/SAE 1145
ST2191	STEEL, FED STD 66, AISI/SAE 1146
ST2192	STEEL, FED STD 66, AISI/SAE 1151
ST1313	STEEL, FED STD 66, AISI/SAE 1330
ST1314	STEEL, FED STD 66, AISI/SAE 1330H
ST1315	STEEL, FED STD 66, AISI/SAE 1335
ST1316	STEEL, FED STD 66, AISI/SAE 1335H
ST1317	STEEL, FED STD 66, AISI/SAE 1340
ST1318	STEEL, FED STD 66, AISI/SAE 1340H
ST1319	STEEL, FED STD 66, AISI/SAE 1345
ST2022	STEEL, FED STD 66, AISI/SAE 1345H
ST2023	STEEL, FED STD 66, AISI/SAE 4012
ST1323	STEEL, FED STD 66, AISI/SAE 4023
ST2062	STEEL, FED STD 66, AISI/SAE 4024
ST1324	STEEL, FED STD 66, AISI/SAE 4027
ST1325	STEEL, FED STD 66, AISI/SAE 4027H
ST2063	STEEL, FED STD 66, AISI/SAE 4028
ST2064	STEEL, FED STD 66, AISI/SAE 4028H
ST1326	STEEL, FED STD 66, AISI/SAE 4037
ST1327	STEEL, FED STD 66, AISI/SAE 4037H
ST1330	STEEL, FED STD 66, AISI/SAE 4047
ST1331	STEEL, FED STD 66, AISI/SAE 4047H
ST2065	STEEL, FED STD 66, AISI/SAE 4118
ST2066	STEEL, FED STD 66, AISI/SAE 4118H
ST1335	STEEL, FED STD 66, AISI/SAE 4130
ST1336	STEEL, FED STD 66, AISI/SAE 4130H
ST1339	STEEL, FED STD 66, AISI/SAE 4137
ST1340	STEEL, FED STD 66, AISI/SAE 4137H
ST1341	STEEL, FED STD 66, AISI/SAE 4140
ST1342	STEEL, FED STD 66, AISI/SAE 4140H
ST1343	STEEL, FED STD 66, AISI/SAE 4142
ST1344	STEEL, FED STD 66, AISI/SAE 4142H
ST1345	STEEL, FED STD 66, AISI/SAE 4145
ST1346	STEEL, FED STD 66, AISI/SAE 4145H
ST1347	STEEL, FED STD 66, AISI/SAE 4147
ST1348	STEEL, FED STD 66, AISI/SAE 4147H
ST1349	STEEL, FED STD 66, AISI/SAE 4150
ST1350	STEEL, FED STD 66, AISI/SAE 4150H
ST2067	STEEL, FED STD 66, AISI/SAE 4161
ST2068	STEEL, FED STD 66, AISI/SAE 4161H

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1351	STEEL, FED STD 66, AISI/SAE 4320
ST1352	STEEL, FED STD 66, AISI/SAE 4320H
ST1356	STEEL, FED STD 66, AISI/SAE 4340
ST1357	STEEL, FED STD 66, AISI/SAE 4340H
ST2069	STEEL, FED STD 66, AISI/SAE 4419
ST2070	STEEL, FED STD 66, AISI/SAE 4419H
ST1358	STEEL, FED STD 66, AISI/SAE 4615
ST1361	STEEL, FED STD 66, AISI/SAE 4620
ST1362	STEEL, FED STD 66, AISI/SAE 4620H
ST1363	STEEL, FED STD 66, AISI/SAE 4621
ST1364	STEEL, FED STD 66, AISI/SAE 4621H
ST2071	STEEL, FED STD 66, AISI/SAE 4626
ST2072	STEEL, FED STD 66, AISI/SAE 4626H
ST2073	STEEL, FED STD 66, AISI/SAE 4718
ST2074	STEEL, FED STD 66, AISI/SAE 4718H
ST2075	STEEL, FED STD 66, AISI/SAE 4720
ST2076	STEEL, FED STD 66, AISI/SAE 4720H
ST1365	STEEL, FED STD 66, AISI/SAE 4815
ST1366	STEEL, FED STD 66, AISI/SAE 4815H
ST2077	STEEL, FED STD 66, AISI/SAE 4817
ST2078	STEEL, FED STD 66, AISI/SAE 4817H
ST1367	STEEL, FED STD 66, AISI/SAE 4820
ST1368	STEEL, FED STD 66, AISI/SAE 4820H
ST1962	STEEL, FED STD 66, AISI/SAE 5015
ST1369	STEEL, FED STD 66, AISI/SAE 5120
ST1370	STEEL, FED STD 66, AISI/SAE 5120H
ST1371	STEEL, FED STD 66, AISI/SAE 5130
ST1372	STEEL, FED STD 66, AISI/SAE 5130H
ST1373	STEEL, FED STD 66, AISI/SAE 5132
ST1374	STEEL, FED STD 66, AISI/SAE 5132H
ST1375	STEEL, FED STD 66, AISI/SAE 5135
ST1376	STEEL, FED STD 66, AISI/SAE 5135H
ST1377	STEEL, FED STD 66, AISI/SAE 5140
ST1378	STEEL, FED STD 66, AISI/SAE 5140H
ST1379	STEEL, FED STD 66, AISI/SAE 5145
ST1380	STEEL, FED STD 66, AISI/SAE 5145H
ST1381	STEEL, FED STD 66, AISI/SAE 5147
ST1382	STEEL, FED STD 66, AISI/SAE 5147H
ST2087	STEEL, FED STD 66, AISI/SAE 5150
ST2088	STEEL, FED STD 66, AISI/SAE 5150H
ST2089	STEEL, FED STD 66, AISI/SAE 5155
ST2090	STEEL, FED STD 66, AISI/SAE 5155H
ST1383	STEEL, FED STD 66, AISI/SAE 5160
ST1384	STEEL, FED STD 66, AISI/SAE 5160H
ST2091	STEEL, FED STD 66, AISI/SAE 6118
ST2092	STEEL, FED STD 66, AISI/SAE 6118H
ST1385	STEEL, FED STD 66, AISI/SAE 6150
ST1386	STEEL, FED STD 66, AISI/SAE 6150H

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1388	STEEL, FED STD 66, AISI/SAE 8615
ST1389	STEEL, FED STD 66, AISI/SAE 8617
ST1390	STEEL, FED STD 66, AISI/SAE 8617H
ST1391	STEEL, FED STD 66, AISI/SAE 8620
ST1392	STEEL, FED STD 66, AISI/SAE 8620H
ST1393	STEEL, FED STD 66, AISI/SAE 8622
ST1394	STEEL, FED STD 66, AISI/SAE 8622H
ST2095	STEEL, FED STD 66, AISI/SAE 8625
ST2096	STEEL, FED STD 66, AISI/SAE 8625H
ST2097	STEEL, FED STD 66, AISI/SAE 8627
ST2098	STEEL, FED STD 66, AISI/SAE 8627H
ST1395	STEEL, FED STD 66, AISI/SAE 8630
ST1396	STEEL, FED STD 66, AISI/SAE 8630H
ST1967	STEEL, FED STD 66, AISI/SAE 8637
ST1968	STEEL, FED STD 66, AISI/SAE 8637H
ST1397	STEEL, FED STD 66, AISI/SAE 8640
ST1398	STEEL, FED STD 66, AISI/SAE 8640H
ST1399	STEEL, FED STD 66, AISI/SAE 8642
ST1400	STEEL, FED STD 66, AISI/SAE 8642H
ST1401	STEEL, FED STD 66, AISI/SAE 8645
ST1402	STEEL, FED STD 66, AISI/SAE 8645H
ST1405	STEEL, FED STD 66, AISI/SAE 8655
ST1406	STEEL, FED STD 66, AISI/SAE 8655H
ST1409	STEEL, FED STD 66, AISI/SAE 8720
ST1410	STEEL, FED STD 66, AISI/SAE 8720H
ST1411	STEEL, FED STD 66, AISI/SAE 8740
ST1412	STEEL, FED STD 66, AISI/SAE 8740H
ST2099	STEEL, FED STD 66, AISI/SAE 8822
ST2100	STEEL, FED STD 66, AISI/SAE 8822H
ST2101	STEEL, FED STD 66, AISI/SAE 9255
ST2102	STEEL, FED STD 66, AISI/SAE 9260
ST2103	STEEL, FED STD 66, AISI/SAE 9260H
ST2193	STEEL, FED STD 66, AISI 12L13
ST2194	STEEL, FED STD 66, AISI 12L14
ST2273	STEEL, FED STD 66, AISI 201/SAE 30201
ST2274	STEEL, FED STD 66, AISI 202/SAE 30202
ST1613	STEEL, FED STD 66, AISI 301/SAE 30301
ST1614	STEEL, FED STD 66, AISI 302/SAE 30302
ST2275	STEEL, FED STD 66, AISI 302B/SAE 30302B
ST1615	STEEL, FED STD 66, AISI 303/SAE 30303
ST1616	STEEL, FED STD 66, AISI 303SE/SAE 30303SE
ST1617	STEEL, FED STD 66, AISI 304/SAE 30304
ST1927	STEEL, FED STD 66, AISI 304L/SAE 30304L
ST1618	STEEL, FED STD 66, AISI 305/SAE 30305
ST1994	STEEL, FED STD 66, AISI 308/SAE 30308
ST1619	STEEL, FED STD 66, AISI 309/SAE 30309
ST1995	STEEL, FED STD 66, AISI 309S/SAE 30309S
ST1620	STEEL, FED STD 66, AISI 310/SAE 30310

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1996	STEEL, FED STD 66, AISI 310S/SAE 30310S
ST1997	STEEL, FED STD 66, AISI 314/SAE 30314
ST1621	STEEL, FED STD 66, AISI 316/SAE 30316
ST1998	STEEL, FED STD 66, AISI 316L/SAE 30316L
ST1622	STEEL, FED STD 66, AISI 317/SAE 30317
ST1623	STEEL, FED STD 66, AISI 321/SAE 30321
ST1624	STEEL, FED STD 66, AISI 347/SAE 30347
ST1625	STEEL, FED STD 66, AISI 348/SAE 30348
ST2276	STEEL, FED STD 66, AISI 384/SAE 30384
ST2277	STEEL, FED STD 66, AISI 385/SAE 30385
ST1626	STEEL, FED STD 66, AISI 403/SAE 51403
ST1627	STEEL, FED STD 66, AISI 405/SAE 51405
ST1628	STEEL, FED STD 66, AISI 410/SAE 51410
ST1629	STEEL, FED STD 66, AISI 414/SAE 51414
ST1630	STEEL, FED STD 66, AISI 416/SAE 51416
ST1631	STEEL, FED STD 66, AISI 416SE/SAE 51416SE
ST1632	STEEL, FED STD 66, AISI 420/SAE 51420
ST1633	STEEL, FED STD 66, AISI 430/SAE 51430
ST2278	STEEL, FED STD 66, AISI 430F/SAE 51430F
ST2279	STEEL, FED STD 66, AISI 430FSE/SAE 51430FSE
ST1634	STEEL, FED STD 66, AISI 431/SAE 51431
ST1635	STEEL, FED STD 66, AISI 440A/SAE 51440A
ST1724	STEEL, FED STD 66, AISI 440B/SAE 51440B
ST1636	STEEL, FED STD 66, AISI 440C/SAE 51440C
ST2000	STEEL, FED STD 66, AISI 442/SAE 51442
ST1637	STEEL, FED STD 66, AISI 446/SAE 51446
ST2280	STEEL, FED STD 66, AISI 501/SAE 51501
ST2281	STEEL, FED STD 66, AISI 502/SAE 51502
ST1287	STEEL, FED STD 66, AISI 1005
ST2001	STEEL, FED STD 66, AISI 1011
ST2002	STEEL, FED STD 66, AISI 1013
ST2149	STEEL, FED STD 66, AISI 1031
ST2150	STEEL, FED STD 66, AISI 1033
ST2151	STEEL, FED STD 66, AISI 1034
ST2168	STEEL, FED STD 66, AISI 1059
ST2170	STEEL, FED STD 66, AISI 1061
ST2171	STEEL, FED STD 66, AISI 1064
ST2172	STEEL, FED STD 66, AISI 1065
ST2173	STEEL, FED STD 66, AISI 1066
ST2174	STEEL, FED STD 66, AISI 1069
ST2175	STEEL, FED STD 66, AISI 1071
ST2176	STEEL, FED STD 66, AISI 1072
ST2177	STEEL, FED STD 66, AISI 1074
ST2178	STEEL, FED STD 66, AISI 1075
ST2182	STEEL, FED STD 66, AISI 1085
ST2183	STEEL, FED STD 66, AISI 1086
ST2185	STEEL, FED STD 66, AISI 1108
ST1932	STEEL, FED STD 66, AISI 1211/SAE 1111

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2195	STEEL, FED STD 66, AISI 1215
ST2206	STEEL, FED STD 66, GRADE MB1006
ST2207	STEEL, FED STD 66, GRADE MB1010
ST2196	STEEL, FED STD 66, GRADE M1008
ST2197	STEEL, FED STD 66, GRADE M1010
ST2198	STEEL, FED STD 66, GRADE M1012
ST2199	STEEL, FED STD 66, GRADE M1015
ST2200	STEEL, FED STD 66, GRADE M1017
ST2201	STEEL, FED STD 66, GRADE M1020
ST2202	STEEL, FED STD 66, GRADE M1023
ST2203	STEEL, FED STD 66, GRADE M1025
ST2204	STEEL, FED STD 66, GRADE M1031
ST2205	STEEL, FED STD 66, GRADE M1044
ST2286	STEEL, FED STD 66, SAE 1009
ST1919	STEEL, MIL-S-861, CLASS 403
ST1920	STEEL, MIL-S-861, CLASS 405
ST1921	STEEL, MIL-S-861, CLASS 410
ST2282	STEEL, MIL-S-861, CLASS 422
ST2283	STEEL, MIL-S-862, CLASS 322
ST2284	STEEL, MIL-S-862, CLASS 324
ST1731	STEEL, MIL-S-862, CLASS 440F
ST1732	STEEL, MIL-S-862, CLASS 440FSE
ST2109	STEEL, MIL-S-866, CLASS TS8615
ST2208	STEEL, MIL-S-866, CLASS 1016
ST1874	STEEL, MIL-S-866, CLASS 3115
ST1891	STEEL, MIL-S-866, CLASS 4615
ST2108	STEEL, MIL-S-866, CLASS 8615
ST2030	STEEL, MIL-S-869, CLASS B
ST2110	STEEL, MIL-S-890, ALLOY NO. 1
ST2031	STEEL, MIL-S-890, ALLOY NO. 2
ST2111	STEEL, MIL-S-890, ALLOY NO. 3
ST2112	STEEL, MIL-S-890, ALLOY NO. 4
ST2026	STEEL, MIL-S-890, CLASS AC
ST2027	STEEL, MIL-S-890, CLASS BS
ST2028	STEEL, MIL-S-890, CLASS B
ST2029	STEEL, MIL-S-890, CLASS C
ST1894	STEEL, MIL-S-5000
ST1639	STEEL, MIL-S-5059, TYPE 301
ST2288	STEEL, MIL-S-5059, TYPE 302
ST2285	STEEL, MIL-S-5059, TYPE 316
ST1892	STEEL, MIL-S-7108
ST1875	STEEL, MIL-S-7393, COMP 1
ST1876	STEEL, MIL-S-7393, COMP 2
ST1640	STEEL, MIL-S-7720, COMP 302
ST1641	STEEL, MIL-S-7720, COMP 303S
ST1642	STEEL, MIL-S-7720, COMP 313SE
ST1643	STEEL, MIL-S-7720, COMP 316
ST1899	STEEL, MIL-S-8503

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1426	STEEL, MIL-S-8559
ST1708	STEEL, MIL-S-15083, CLASS CW
ST2209	STEEL, MIL-S-15083, GRADE B
ST2210	STEEL, MIL-S-15083, GRADE 65-35
ST2211	STEEL, MIL-S-15083, GRADE 70-36
ST2113	STEEL, MIL-S-15083, GRADE 80-40
ST2114	STEEL, MIL-S-15083, GRADE 80-50
ST2115	STEEL, MIL-S-15083, GRADE 90-60
ST2116	STEEL, MIL-S-15083, GRADE 105-85
ST2117	STEEL, MIL-S-15083, GRADE 120-95
ST2118	STEEL, MIL-S-15083, GRADE 150-125
ST2119	STEEL, MIL-S-15464, CLASS 1
ST1888	STEEL, MIL-S-15464, CLASS 2
ST1889	STEEL, MIL-S-15464, CLASS 3
ST1681	STEEL, MIL-S-16788, CLASS C1
ST1682	STEEL, MIL-S-16788, CLASS C2
ST1710	STEEL, MIL-S-16788, CLASS C3
ST1709	STEEL, MIL-S-16788, CLASS C4
ST1711	STEEL, MIL-S-16788, CLASS C5
ST2212	STEEL, MIL-S-16788, CLASS C6
ST2213	STEEL, MIL-S-16788, CLASS C8
ST2214	STEEL, MIL-S-16788, CLASS C10
ST2126	STEEL, MIL-S-16974, GRADE CV-45
ST2127	STEEL, MIL-S-16974, GRADE MNV-30
ST2128	STEEL, MIL-S-16974, GRADE MOV-30
ST2129	STEEL, MIL-S-16974, GRADE MOV-40
ST2122	STEEL, MIL-S-16974, GRADE TS8615
ST2123	STEEL, MIL-S-16974, GRADE TS8620
ST2125	STEEL, MIL-S-16974, GRADE TS8625
ST1683	STEEL, MIL-S-16974, GRADE 1010
ST2215	STEEL, MIL-S-16974, GRADE 1015
ST1684	STEEL, MIL-S-16974, GRADE 1022
ST2216	STEEL, MIL-S-16974, GRADE 1023W
ST1713	STEEL, MIL-S-16974, GRADE 1030
ST1714	STEEL, MIL-S-16974, GRADE 1040
ST1715	STEEL, MIL-S-16974, GRADE 1050
ST2217	STEEL, MIL-S-16974, GRADE 1060
ST2218	STEEL, MIL-S-16974, GRADE 1080
ST1864	STEEL, MIL-S-16974, GRADE 1095
ST1867	STEEL, MIL-S-16974, GRADE 1320
ST1868	STEEL, MIL-S-16974, GRADE 1330
ST2120	STEEL, MIL-S-16974, GRADE 1335
ST1869	STEEL, MIL-S-16974, GRADE 1340
ST1877	STEEL, MIL-S-16974, GRADE 3130
ST1878	STEEL, MIL-S-16974, GRADE 3140
ST1879	STEEL, MIL-S-16974, GRADE 4130
ST1881	STEEL, MIL-S-16974, GRADE 4135
ST1882	STEEL, MIL-S-16974, GRADE 4140

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2121	STEEL, MIL-S-16974, GRADE 4145
ST1901	STEEL, MIL-S-16974, GRADE 4340
ST1883	STEEL, MIL-S-16974, GRADE 4640
ST1902	STEEL, MIL-S-16974, GRADE 6145
ST1903	STEEL, MIL-S-16974, GRADE 8615
ST1904	STEEL, MIL-S-16974, GRADE 8620
ST2124	STEEL, MIL-S-16974, GRADE 8625
ST1906	STEEL, MIL-S-16974, GRADE 8630
ST1907	STEEL, MIL-S-16974, GRADE 8635
ST1908	STEEL, MIL-S-16974, GRADE 8640
ST1909	STEEL, MIL-S-16974, GRADE 8645
ST2130	STEEL, MIL-S-18410, CLASS A
ST1890	STEEL, MIL-S-18410, CLASS B
ST1644	STEEL, MIL-S-18732
ST2219	STEEL, QQ-S-637, B1113A
ST2220	STEEL, QQ-S-637, B1113B
ST2221	STEEL, QQ-S-637, 12L14C
ST2222	STEEL, QQ-S-637, 12L14D
ST2223	STEEL, QQ-S-637, 12L14E
ST2224	STEEL, QQ-S-637, 12L14F
ST2225	STEEL, QQ-S-637, 12L14G
ST2226	STEEL, QQ-S-637, 12L14H
ST2227	STEEL, QQ-S-637, 12L14J
ST2228	STEEL, QQ-S-637, 12L14K
ST2229	STEEL, QQ-S-637, 12L14L
ST2230	STEEL, QQ-S-637, 12L14M
ST2765	STEEL, QQ-S-681
ST2233	STEEL, QQ-S-681, CLASS 0050A
ST2234	STEEL, QQ-S-681, CLASS 0050B
ST1720	STEEL, QQ-S-681, CLASS 65-35
ST2231	STEEL, QQ-S-681, CLASS 70-36
ST2232	STEEL, QQ-S-681, CLASS 80-40
ST2131	STEEL, QQ-S-681, CLASS 80-50
ST2132	STEEL, QQ-S-681, CLASS 90-60
ST2133	STEEL, QQ-S-681, CLASS 105-85
ST2134	STEEL, QQ-S-681, CLASS 120-95
ST2135	STEEL, QQ-S-681, CLASS 150-125
ST2136	STEEL, QQ-S-681, CLASS 175-145
ST1721	STEEL, QQ-S-691, CLASS A-CANCELED
ST1722	STEEL, QQ-S-691, CLASS B-CANCELED
ST1723	STEEL, QQ-S-691, CLASS C-CANCELED
ST0947	STEEL, QQ-S-698, COMP 1009
ST0949	STEEL, QQ-S-698, COMP 1018
ST1646	STEEL, QQ-S-763, CLASS 302
ST1647	STEEL, QQ-S-763, CLASS 303
ST1649	STEEL, QQ-S-763, CLASS 304
ST2287	STEEL, QQ-S-766, CLASS 323
ST6645	STEEL, SAE 4140

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
SN0005	TIN-BRONZE (metal), ASTM B143-52, ALLOY 1B
TT0000	TITANIUM ALLOY
TT0001	TITANIUM ALLOY, AMS 4900
TT0002	TITANIUM ALLOY, AMS 4901
TT0003	TITANIUM ALLOY, AMS 4902
TT0004	TITANIUM ALLOY, AMS 4921
TT0005	TITANIUM ALLOY, AMS 4925
TT0006	TITANIUM ALLOY, AMS 4941
TT0007	TITANIUM ALLOY, MIL-T-9047, CLASS 1
TT0008	TITANIUM ALLOY, MIL-T-9047, CLASS 6
TNA000	TUNGSTEN CARBIDE
ZNL000	ZINC ALLOY
ZN0014	ZINC ALLOY, SAE 903
ZN0015	ZINC ALLOY, SAE 925

Table 2 - MEDIA FOR WHICH DESIGNED
MEDIA FOR WHICH DESIGNED

<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AA	ACETYLENE
DU	AEROSOL INSECTICIDE
AB	AIR
AD	ALCOHOL, ETHYL
AE	ALCOHOL, METHYL
ABF	AMMONIA, ANHYDROUS
AG	AMMONIA, GASEOUS
AH	AMMONIA, LIQUID
A	ANY ACCEPTABLE
AJ	ARGON (Oxygen Free)
AK	BROMOCHLOROMETHANE
ABB	BUTANE
AR	BUTANE (Underwriter Laboratory Approved) (Bottled Gas)
AS	CARBON DIOXIDE
DW	CARBON MONOXIDE
AT	CARBON TETRACHLORIDE
DX	CARBOXIDE
DY	CARRENE - 7, GAS
DZ	CARRENE - 7, LIQUID
AV	CHLORINE
HD	CHLOROFLUOROHYDROCARBON
EA	DICHLORODIFLUOROMETHANE
EB	DIESTER BASE LUBRICATING OIL
EC	ETHYL CHLORIDE
BB	ETHYLENE GLYCOL
ED	ETHYLENE OXIDE
AHU	FOAM LIQUID

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<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AHV	FOAM POWDER
ES	FREON
RJ	FREON 112
LK	FREON 113
ABE	GAS
BL	HELIUM
EE	HELIUM-OXYGEN MIXTURE
BN	HYDRAULIC FLUID, PHOSPHATE - ESTER BASE
BP	HYDRAULIC FLUID, SILICATE - ESTER BASE
BQ	HYDRAZINE
BR	HYDRAZINE/UNSYMMETRIC DIMETHYL HYDRAZINE, 50/50-UDMH
BS	HYDROCARBON FUELS AND OILS (INCLUDES: Aromatic fuels (aircraft) Diesel Fuel Fuel Oil Gasoline Grease Hydraulic Oil Jet Fuel Kerosene Lubricating Oil)
BT	HYDROGEN
ABD	INERT GAS
BU	INGESTED LIQUIDS (Approved)
EF	METHYL CHLORIDE, GAS
EG	METHYL CHLORIDE, LIQUID
CF	NITRIC ACID
AAP	NITROGEN
CH	NITROGEN, GASEOUS
CJ	NITROGEN, LIQUID
CK	NITROGEN, TETRAOXIDE
EH	NITROUS OXYGEN
AAD	OIL
AAQ	OXYGEN
CN	OXYGEN, GASEOUS
CP	OXYGEN, LIQUID (Lox)
EJ	PHOSGENE
ABC	PROPANE
EL	PROPANE GAS (Underwriter Laboratory Approved)
EM	PROPANE, LIQUID
AAE	REFRIGERANT
AAY	REFRIGERANT R-502
CS	REFRIGERANT 12
CT	REFRIGERANT 13
CU	REFRIGERANT 22
CX	REFRIGERANT 500
DC	STEAM
DD	SULPHUR DIOXIDE, GASEOUS
ET	SULPHUR HEXAFLUORIDE
DE	TRICHLORETHYLENE
RK	TRICHLOROMONOFLUOROMETHANE
DH	WATER, FRESH
DK	WATER, OIL OR GAS
DL	WATER, SALT

Table 3 - THREAD DESIGNATORS
THREAD DESIGNATORS

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
AM	ACME
AC	ACME C
AG	ACME G
AN	ANPT
BF	BSF
BL	BSP. PL EXT
BN	BSP. PL INT
BS	BSP. TR EXT
BR	BSP. TR INT
BW	BSW
FP	F-PTF
SM	ISO M
SS	ISO S
NG	NGO
GS	NGS
GT	NGT
NH	NH
	Nonstandard (use Reply Code NS)
SP	NPS
SC	NPSC
SF	NPSF
SH	NPSH
PS	NPSI
SL	NPSL
PM	NPSM
NP	NPT
NT	NPTF
PT	PTF-SAE SHORT
PP	PTF-SPL
PE	PTF-SPL EXTRA SHORT
PF	PTF-SPL SHORT
SJ	SI
SK	SI-M
SA	STUB ACME
NE	UNEF
NF	UNF
NJ	UNJ
JC	UNJC
JE	UNJEF
JF	UNJF
NS	UNS

Table 4 - OPERATION METHODS
OPERATION METHODS

<u>REPLY CODE</u>	<u>REPLY (AC58)</u>
AW	AUTOMATIC
AX	DIAPHRAGM
AY	FLOAT
AZ	FOOT
BA	HANDLE
BB	KEY
AH	LEVER
BC	PISTON
BD	PUSH BUTTON
BE	SEAT
BF	TEMPERATURE
AV	WHEEL
AT	WRENCH

Table 5 - FURNISHED ITEMS
FURNISHED ITEMS

<u>REPLY CODE</u>	<u>REPLY (AB28)</u>
CN	ADAPTER
DL	ANGLE SUPPLY STOP
DM	AUTOMATIC TEMPERATURE CONTROL
DN	CAP
DP	CAP AND CHAIN
DQ	CHAIN AND PLUG
DR	CHAIN AND RING
BHG	COUPLING NUT W/TAILPIECE
DS	DETACHABLE DISTRIBUTOR
AHH	ELBOW FLUSH CONNECTION
DT	EMERGENCY MANUAL OPERATING DE
DU	EMERGENCY OPENING DEVICE VICE
AHD	FILTER SCREEN
DV	FLOAT
DW	FLOAT AND ROD
DX	FLOAT ROD
RH	FLUSH PIPE
RJ	FRICITION WASHER
DY	GAGE HATCH
AT	GASKET
AHF	INLET CONNECTION
AHG	INLET TAILPIECE
AHK	KEY
DZ	LOOSE KEY
EA	MANUAL OPERATING DEVICE
EB	MANUAL UNLOADER ON PRESSURE SIDE

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<u>REPLY CODE</u>	<u>REPLY (AB28)</u>
EC	MANUAL UNLOADER ON VACUUM SIDE
BC	MOUNTING BRACKET
RB	NIPPLE
ED	NUT
EE	NUT AND SLEEVE
EF	POSITION INDICATOR
EG	PRESSURE GAGE
AHC	REDUCER BUSHING
EH	REFILL TUBE
TS	RETAINING RING
RK	RUBBER WASHER
EJ	SAFETY DEVICE
RL	SCREEN, FLAME
RM	SIPHON TUBE
FB	SLEEVE
RN	SPUD FLANGE
EK	STRAIGHT SUPPLY STOP
CZ	TEMPERATURE GAGE
EL	TEST ATTACHMENT
AHE	VACUUM BREAKER
EM	VOLUME CONTROL
EN	WALL AND SPUD FLANGES
JB	WASHER
YS	WRENCH

Table 6 - SURFACE TREATMENTS
SURFACE TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AN0000	ANODIZED
	ANODIZED, Anodic Film, MIL-C-5541 (use Reply Code XX0002)
AN0002	ANODIZED, MIL-A-8625
AN0003	ANODIZED, MIL-A-8625, TYPE 1
AN0005	ANODIZED, MIL-A-8625, TYPE 1, CLASS 1
AN0004	ANODIZED, MIL-A-8625, TYPE 2
AN0035	ANODIZED, MIL-F-14072, FINISH E511
AN0050	ANODIZED, MIL-STD-171, FINISH 7.1.1
A	ANY ACCEPTABLE
BA0000	BLACK OXIDE
BL0000	BLUED
BR0000	BRASS
BN0000	BRONZE
CD0000	CADMIUM
CD0001	CADMIUM, AMS 2400
CD0002	CADMIUM, AMS 2416
CDD000	CADMIUM, DICHROMATE TREATED
CD0003	CADMIUM, NAS 672

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
CD0004	CADMIUM, QQ-P-416, TYPE 1, CLASS 1
CD0005	CADMIUM, QQ-P-416, TYPE 1, CLASS 2
CD0006	CADMIUM, QQ-P-416, TYPE 1, CLASS 3
CD0007	CADMIUM, QQ-P-416, TYPE 2, CLASS 1
CD0008	CADMIUM, QQ-P-416, TYPE 2, CLASS 2
CD0009	CADMIUM, QQ-P-416, TYPE 2, CLASS 3
CD0010	CADMIUM, QQ-P-416, TYPE 3, CLASS 1
CD0011	CADMIUM, QQ-P-416, TYPE 3, CLASS 2
CD0012	CADMIUM, QQ-P-416, TYPE 3, CLASS 3
CN0000	CHROMATE (Iridite) (Cronak)
CH0001	CHROME, MIL-F-14072
CHA000	CHROME-NICKEL PLATED
CR0000	CHROMIUM
CR0001	CHROMIUM, QQ-C-320, CLASS 1, TYPE 1
CU0000	COPPER
EN0000	ENAMEL
GB0000	GALVANIZED
AU0000	GOLD
AUB000	GOLD PLATE OVER SILVER PLATE
GF0000	GRAPHITE
MM0000	IMMUNIZED
LQ0000	LACQUER
PBA000	LEAD OR LEAD-TIN (Indium)
MA0000	MOLYBDENUM
NF0000	NICKEL
NFH000	NICKEL-CHROMIUM ALLOY
NFG000	NICKEL PLATED
NF0232	NICKEL PLATED, QQ-N-290, CLASS 2, TYPE 7
NF0001	NICKEL, QQ-N-290
NF0006	NICKEL, QQ-N-290, CLASS 1, TYPE 3
NF0009	NICKEL, QQ-N-290, CLASS 1, TYPE 6
NF0010	NICKEL, QQ-N-290, CLASS 1, TYPE 7
NF0014	NICKEL, QQ-N-290, CLASS 2
NF0015	NICKEL, QQ-N-290, TYPE 6, MATTE AND MIL-P-6589
XX0000	OXIDE
XX0002	OXIDE FILM, MIL-C-5541
PN0031	PAINT, MIL-P-1265
PS0000	PASSIVATED
PSA000	PASSIVATED AND DICHROMATED TREATED
PSB000	PASSIVATED AND SILVER PLATED
PH0000	PHOSPHATE
PH0001	PHOSPHATE, MIL-C-16232, TYPE 2 - CANCELED
RH0000	RHODIUM
AG0000	SILVER
AG0001	SILVER, AMS 2410
AG0002	SILVER, QQ-S-365
AG0003	SILVER, QQ-S-365, TYPE 2
SN0000	TIN

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
SN0001	TIN, AMS 2408.2
SN0002	TIN PLATED, MIL-T-10727, TYPE 1
VA0000	VARNISHED
VAA000	VARNISHED, JAPAN OR JAPANNED FINISH
ZNC000	ZINC, DICHROMATE TREATED
ZN0010	ZINC, QQ-Z-325, TYPE 1
ZN0011	ZINC, QQ-Z-325, TYPE 2, CHROMATED TREATED
ZN0012	ZINC, WITH PHOSPHATE, QQ-Z-325, TYPE 3

Table 7 - FLOW CONTROL DEVICES
FLOW CONTROL DEVICES

<u>REPLY CODE</u>	<u>REPLY (AC57)</u>
A	ANY ACCEPTABLE
AA	BALL
AB	BALL, PORTED
CT	BELLOWS
CY	CAGE
AY	CLOSURE
AC	CONE
AD	CONE, BOTTOM GUIDED
AE	CONE, TOP GUIDED
BB	CORE
AQ	DIAPHRAGM
AM	DISK, BOTTOM GUIDED
AF	DISK, CIRCULAR
AZ	DISK, DUAL
AG	DISK, FLAT
AN	DISK, FLAT, BOTTOM GUIDED
AP	DISK, FLAT, TOP AND BOTTOM GUIDED
BA	DISK, LIFT
AH	DISK, PLUG TYPE
AJ	DISK, SOLID WEDGE
AK	DISK, SPLIT WEDGE
AR	DISK, SWING TYPE
AL	DISK, TOP GUIDED
CZ	GROUND KEY
AS	NEEDLE
AT	PISTON, FREE TYPE
CH	PISTON, SPRING LOADED
AU	PISTON, WEIGHTED TYPE
AV	PLUG
AW	POPPET
AX	STEM AND INTEGRAL DISK

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Table 8 - NONDEFINITIVE SPEC/STD DATA
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
ML	MATERIAL
MH	MESH
ME	METHOD
MD	MODEL
MT	MOUNTING
NR	NUMBER

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<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Table 9 - END CONNECTION TYPES

For each Reply Code on the "END CONNECTION TYPE", MRCs appear under APPLICABLE REQUIREMENTS. These MRCs represent specific end data characteristic requirements which are defined on the following pages.

END CONNECTION TYPES

<u>REPLY CODE</u>	<u>REPLY</u>	<u>APPLICABLE REQUIREMENTS</u>
AA	THREADED INTERNAL TUBE	(ACKN, ACLT, ACMZ, ACPG), (ACLH, ACMP, ACNW, ACQC), (ACLK, ACMR, ACNY, ACQE) or (ADRN, ADRP, ADRQ, ADRR) as applicable, (ACLL, ACMS, ACNZ, ACQF), (ACTE, ACTF, ACTG, ACTH), or (ACTK, ACTL, ACTM, ACTN) as applicable, (CQMM, CRPF, CSDF, CQCR), (CQYM, CRNB, CSCN, CQFH), (CSQH, CTDX, CTNH, CTNR) and (CWBM, CXNC, CTNX, CTPF) as applicable
AB	UNTHREADED INTERNAL TUBE	(ACKN, ACLT, ACMZ, ACPG), (ACLH, ACMP, ACNW, ACQC)
		(ACKN, ACLT, ACMZ, ACPG), (ACLM, ACMP, ACNW, ACQC), (ACLK, ACMR, ACNY, ACQE) or (ADRN, ADRP, ADRQ, ADRR) as applicable, or (ACTK, ACTL, ACTM, ACTN) as applicable, (CQMM, CRPF, CSDF, CQCR), (CQYM, CRNB, CSCN, CQFH), (CSQH, CTDX, CTNH, CTNR) and (CWBM, CXNC, CTNX, CTPF) as applicable
AC	THREADED EXTERNAL TUBE	(ACKN, ACLT, ACMZ, ACPG), (ACLM, ACMP, ACNW, ACQC)
AD	UNTHREADED EXTERNAL TUBE	(ACKN, ACLT, ACMZ, ACPG), (ACLG, ACMN, ACNV, ACQB)
AE	THREADED INTERNAL PIPE	(ACKN, ACLT, ACMZ, ACPG), (ACLL, ACMS, ACNZ, ACQF), (CQMM, CRPF, CSDF, CQCR), (CQYM, CRNB, CSCN, CQFH)
AF #	UNTHREADED INTERNAL PIPE	(ACKN, ACLT, ACMZ, ACPG), (ACLG, ACMN, ACNV, ACQB)
AG	THREADED EXTERNAL PIPE	(ACKN, ACLT, ACMZ, ACPG), (ACLL, ACMS, ACNZ, ACQF), (CQMM, CRPF, CSDF, CQCR), (CQYM, CRNB, CSCN, CQFH)
AJ	UNTHREADED EXTERNAL PIPE	(ACKN, ACLT, ACMZ, ACPG), (ACLG, ACMN, ACNV, ACQB)
AK	RECESSED FLANGE	(ACKN, ACLT, ACMZ, ACPG), (ACKT, ACLY, ACNF, ACPM), (ACKZ, ACMF, ACNN, ACPU) as applicable
AL	RAISED FACE FLANGE	(ACKN, ACLT, ACMZ, ACPG), (ACKT, ACLY, ACNF, ACPM), (ACKZ, ACMF, ACNN, ACPU) as applicable
AM	PLAIN FACE FLANGE	(ACKN, ACLT, ACMZ, ACPG), (ACKT, ACLY, ACNF, ACPM), (ACKZ, ACMF, ACNN, ACPU) as applicable
BD	BUTT WELD PIPE	(ACKN, ACLT, ACMZ, ACPG), (ACLG, ACMN, ACNV, ACQB)
BE	BUTT WELD TUBE	(ACKN, ACLT, ACMZ, ACPG), (ACLH, ACMP, ACNW, ACQC)
AP	THREADED INTERNAL HOSE	(ACKN, ACLT, ACMZ, ACPG), (ACLE, ACML, ACNT, ACPZ), (ACLK, ACMR, ACNY, ACQE), or (ADRN, ADRP, ADRQ, ADRR) as applicable, (ACLL, ACMS, ACNZ, ACQF), (CQMM, CRPF, CSDF, CQCR), (CQYM, CRNB, CSCN, CQFH), (CSQH, CTDX, CTNH, CTNR) and (CWBM, CXNC, CTNX, CTPF)

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<u>REPLY CODE</u>	<u>REPLY</u>	<u>APPLICABLE REQUIREMENTS</u>
AQ	UNTHREADED INTERNAL HOSE	CTNH, CTNR) and (CWBM, CXNC, CTNX, CTPF) as applicable (ACKN, ACLT, ACMZ, ACPG), (ACLE, ACML, ACNT, ACPZ), (ACLF, ACMM, ACNU, ACQA)
AR	THREADED EXTERNAL HOSE	(ACKN, ACLT, ACMZ, ACPG), (ACLF, ACMM, ACNU, ACQA), (ACLK, ACMR, ACNY, ACQE), or (ADRN, ADRP, ADRQ, ADRL) as applicable, (ACLL, ACMS, ACNZ, ACQF), (CQMM, CRPF, CSDF, CQCR) (CQYM, CRNB, CSCN, CQFH), (CSQH, CTDX, CTNH, CTNR) and (CWBM, CXNC, CTNX, CTPF) as applicable
AS	UNTHREADED EXTERNAL HOSE	(ACKN, ACLT, ACMZ, ACPG), (ACLF, ACMM, ACNU, ACQA)
AT	THREADED INTERNAL GAS CYLINDER	(ACKN, ACLT, ACMZ, ACPG), (ACLK, ACMR, ACNY, ACQE), (ADRN, ADRP, ADRQ, ADRL) as applicable, (ACLL, ACMS, ACNZ, ACQF), (CQMM, CRPF, CSDF, CQCR) (CQYM, CRNB, CSCN, CQFH)
AU	THREADED EXTERNAL GAS CYLINDER	(ACKN, ACLT, ACMZ, ACPG), (ACLK, ACMR, ACNY, ACQE), (ADRN, ADRP, ADRQ, ADRL) as applicable, (ACLL, ACMS, ACNZ, ACQF), (CQMM, CRPF, CSDF, CQCR) (CQYM, CRNB, CSCN, CQFH)
AV	THREADED INTERNAL BOSS	(ACKN, ACLT, ACMZ, ACPG), (ACLK, ACMR, ACNY, ACQE), or (ADRN, ADRP, ADRQ, ADRL) as applicable, (ACLL, ACMS, ACNZ, ACQF), (CQMM, CRPF, CSDF, CQCR) (CQYM, CRNB, CSCN, CQFH), (CSQH, CTDX, CTNH, CTNR) and (CWBM, CXNC, CTNX, CTPF) as applicable
AW	THREADED EXTERNAL BOSS	(ACKN, ACLT, ACMZ, ACPG), (ACLK, ACMR, ACNY, ACQE), or (ADRN, ADRP, ADRQ, ADRL) as applicable, (ACLL, ACMS, ACNZ, ACQF), (CQMM, CRPF, CSDF, CQCR) (CQYM, CRNB, CSCN, CQFH), (CSQH, CTDX, CTNH, CTNR) and (CWBM, CXNC, CTNX, CTPF) as applicable

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MISCELLANEOUS VALVE BODY STYLES

INDEX OF MASTER REQUIREMENT CODES

NOTE: REPLY ONLY TO THE MRCS THAT ARE APPLICABLE TO THE BODY STYLE SELECTED. Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADQLJAA6.000*; ADQLJAB6.000\$\$JAC6.500*; ADQLJLA6.0*)

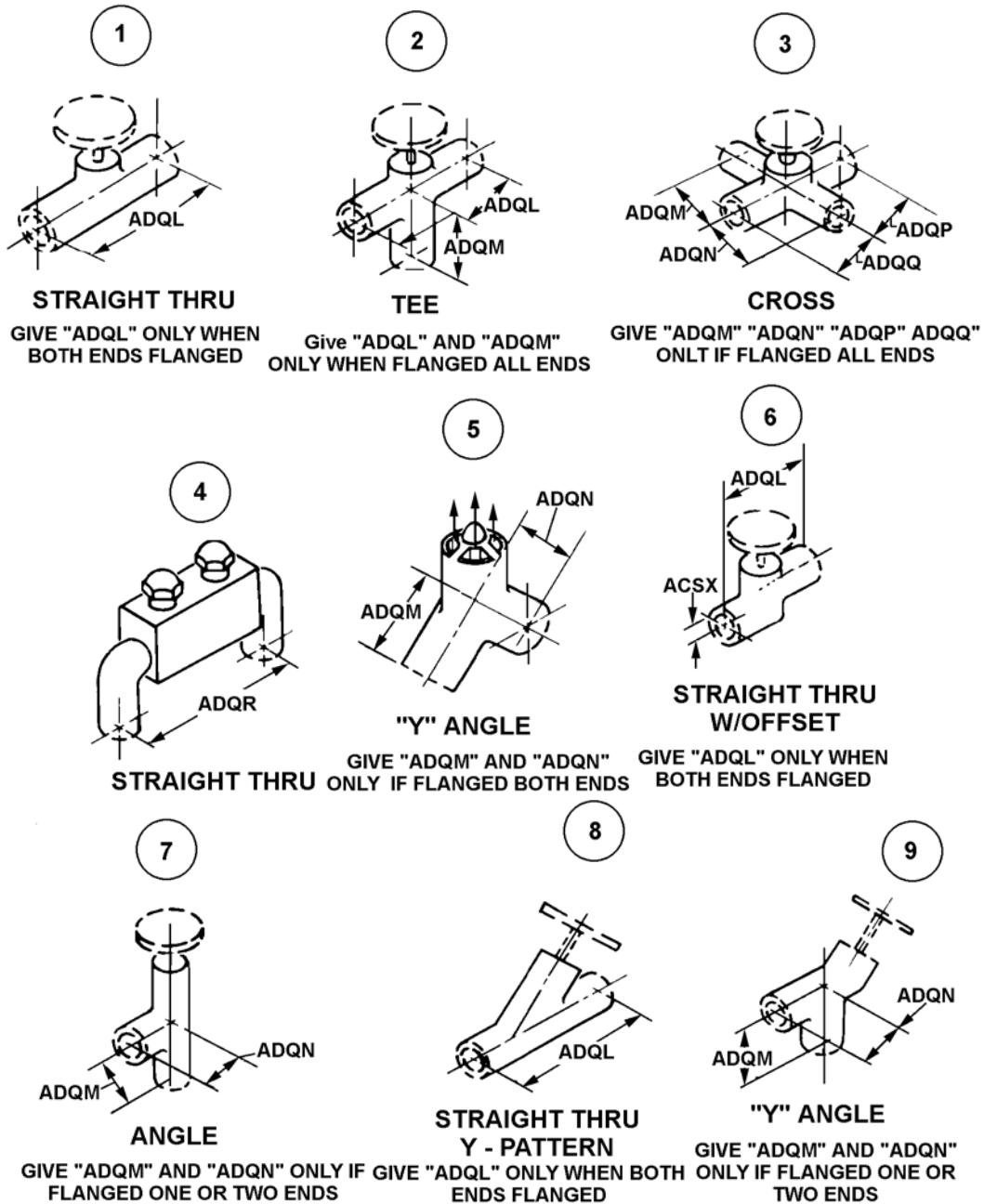
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

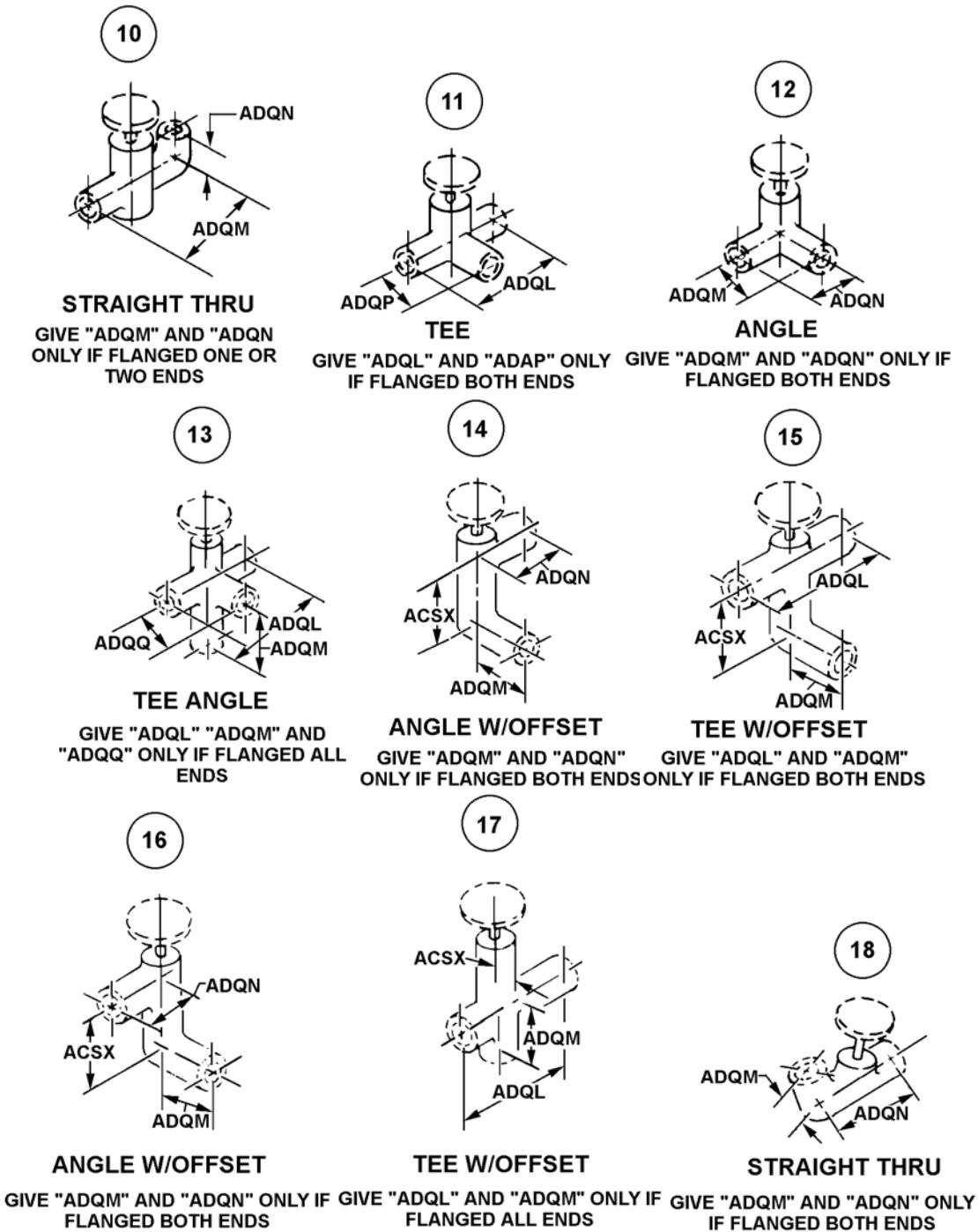
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

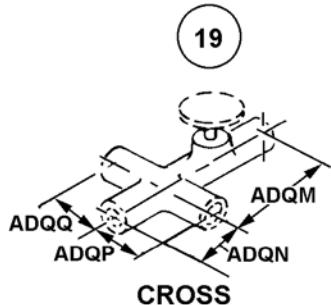
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ACSX	J	OFFSET DISTANCE
ADQL	J	FACE TO FACE DISTANCE
ADQM	J	FIRST CONNECTION FACE TO CENTERLINE DISTANCE
ADQN	J	SECOND CONNECTION FACE TO CENTERLINE DISTANCE
ADQP	J	THIRD CONNECTION FACE TO CENTERLINE DISTANCE
ADQQ	J	FOURTH CONNECTION FACE TO CENTERLINE DISTANCE
ADQR	J	CENTER TO CENTER DISTANCE

REFERENCE DRAWING GROUP A

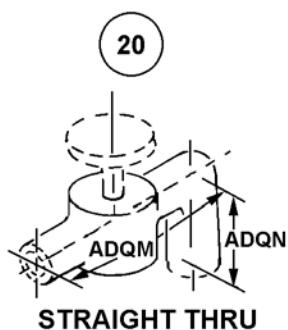
MISCELLANEOUS VALVE BODY STYLES



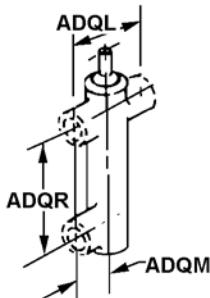




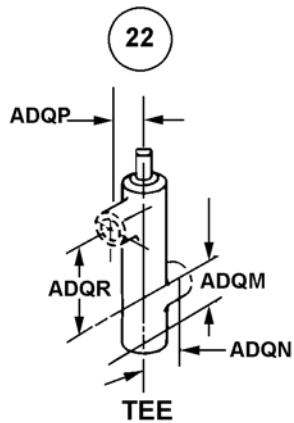
GIVE "ADQM" "ADQN" "ADQP" AND "ADQQ" ONLY IF FLANGED ALL ENDS



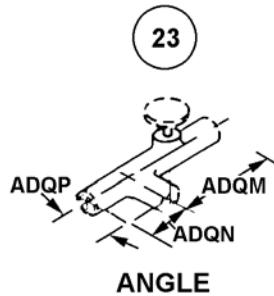
GIVE "ADQM" ONLY IF FLANGED BOTH ENDS



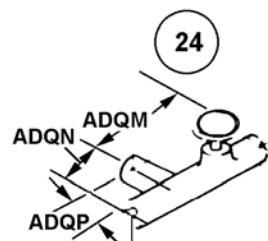
GIVE "ADQL" "ADQM" ONLY IF FLANGED ALL ENDS



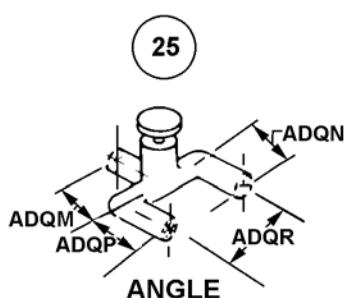
GIVE "ADQM" "ADQN" AND "ADQP" ONLY IF FLANGED ALL ENDS



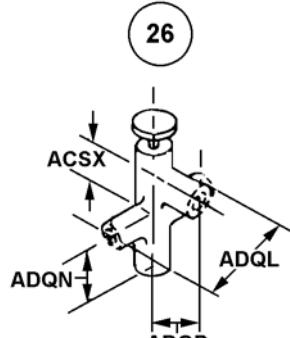
GIVE "ADQM" "ADQN" AND "ADQP" ONLY IF FLANGED ALL ENDS



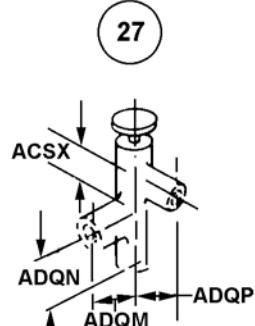
GIVE "ADQM" "ADQN" AND "ADQP" ONLY IF FLANGED ALL ENDS



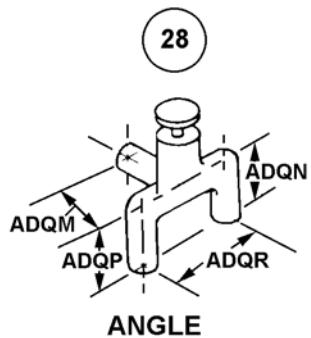
GIVE "ADQM" "ADQM" "ADQN" AND "ADQP" ONLY IF FLANGED ALL ENDS



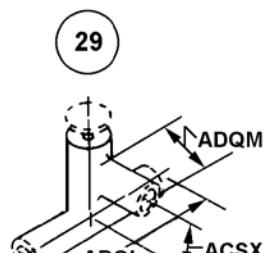
GIVE "ADQL" "ADQN" AND "ADQP" ONLY IF FLANGED ALL ENDS



GIVE "ADQM" "ADQN" AND "ADQP" ONLY IF FLANGED ALL ENDS

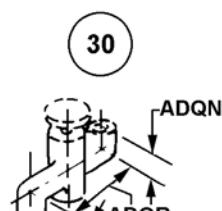


GIVE "ADQM" "ADQN" AND "ADQP"
ONLY IF FLANGED ALL ENDS



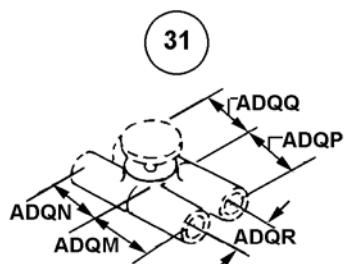
TEE W/OFFSET

GIVE "ADQL" "ADQM" ONLY IF
FLANGED ALL ENDS



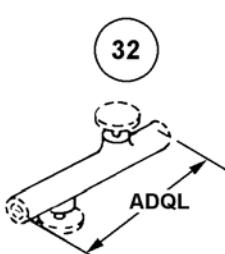
STRAIGHT THRU

GIVE "ADQM" AND "ADQN" ONLY
IF FLANGED ALL ENDS



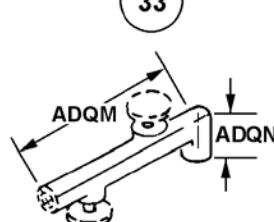
STRAIGHTER THRU

GIVE "ADQM" "ADQN" "ADQP" AND
"ADQQ" ONLY IF FLANGED ALL ENDS



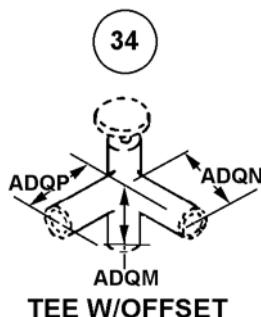
STRAIGHT THRU

GIVE "ADQL" ONLY IF
FLANGED BOTH ENDS



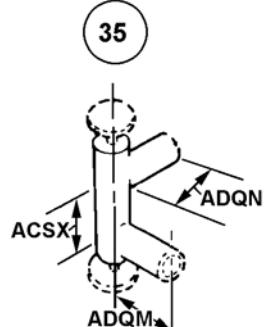
STRAIGHT THRU

GIVE "ADQM" AND "ADQN" ONLY
IF FLANGED BOTH ENDS



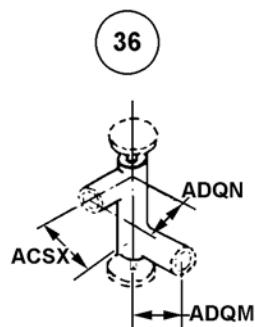
TEE W/OFFSET

GIVE "ADQM" AND "ADQN"
"ADQP" ONLY IF FLANGED ALL
ENDS



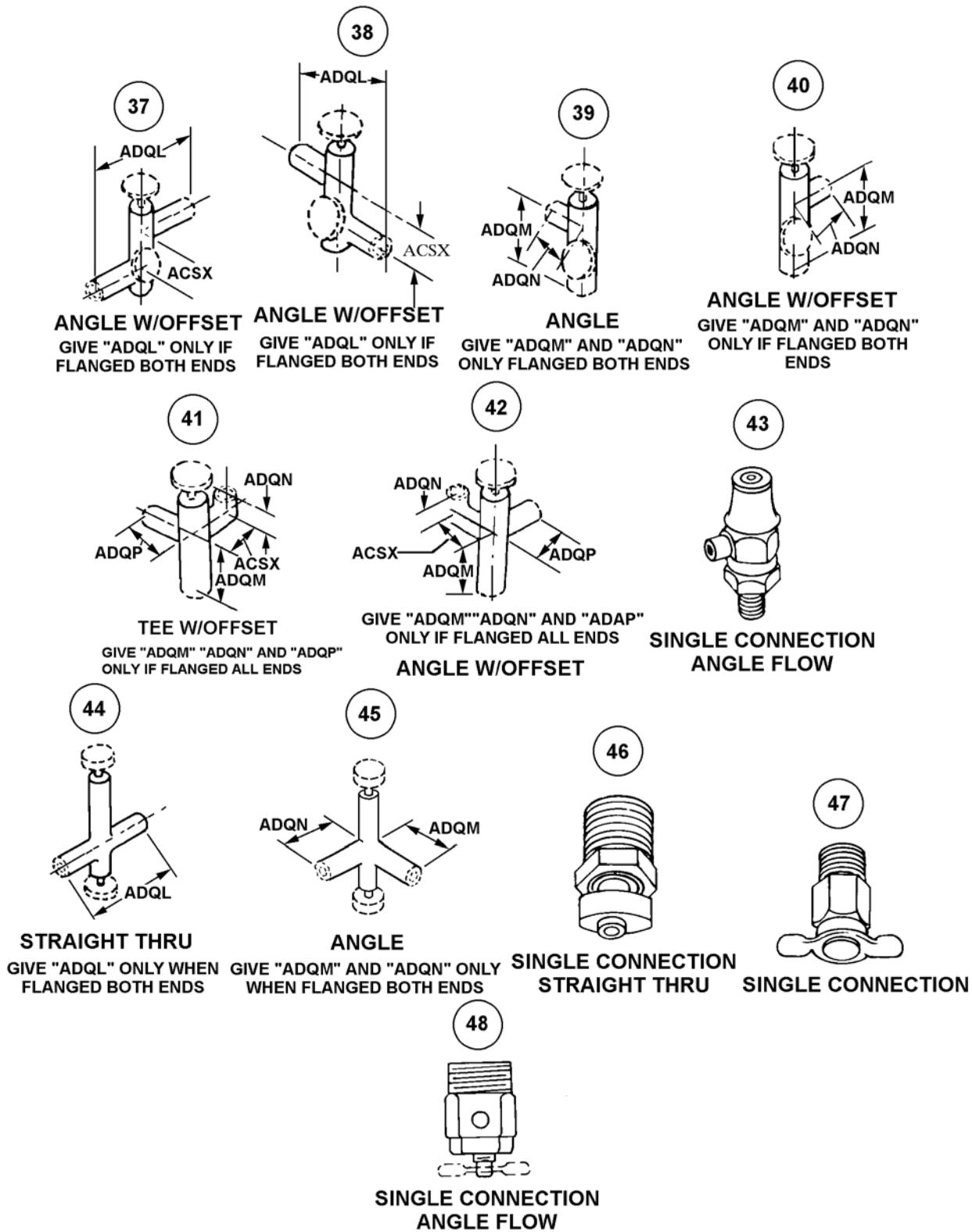
ANGLE W/OFFSET

GIVE "ADQM" AND "ADQN" ONLY IF
FLANGED BOTH ENDS



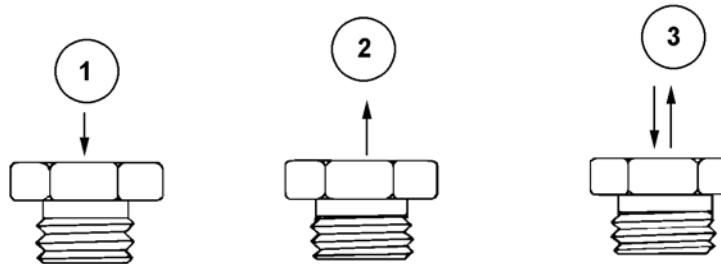
ANGLE W/OFFSET

GIVE "ADQM" AND "ADQN" ONLY
IF FLANGED BOTH ENDS.



REFERENCE DRAWING GROUP B
VACUUM VALVE BODY STYLES

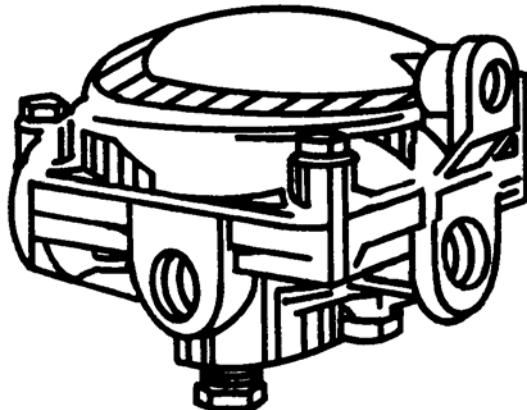
(No Requirements)



SINGLE CONNECTION SINGLE CONNECTION SINGLE CONNECTION
STRAIGHT FLOW STRAIGHT FLOW STRAIGHT FLOW

AIR VALVE BODY STYLES

10



MULTIPLE CONNECTION

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APPENDIX B

REFERENCE DRAWING GROUP C Tables
EXPANSION VALVE BODY STYLES

INDEX OF MASTER REQUIREMENT CODES

NOTE: REPLY ONLY TO THE MRCS THAT ARE APPLICABLE TO THE BODY STYLE SELECTED. Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADQLJAA6.000*; ADQLJAB6.000\$\$JAC6.500*)

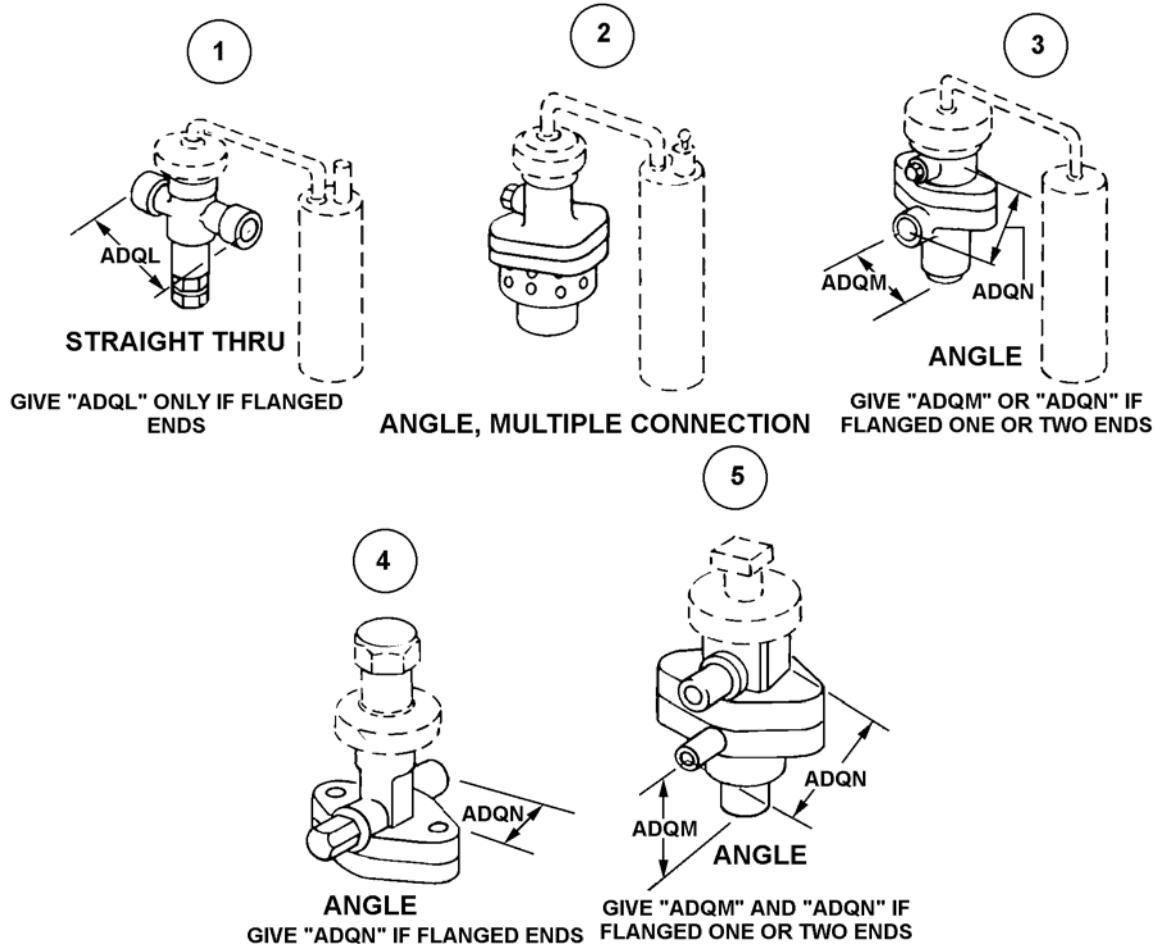
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ADQL	J	FACE TO FACE DISTANCE
ADQM	J	FIRST CONNECTION FACE TO CENTERLINE DISTANCE
ADQN	J	SECOND CONNECTION FACE TO CENTERLINE DISTANCE

REFERENCE DRAWING GROUP C

EXPANSION VALVE BODY STYLES

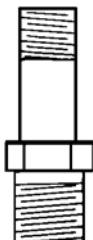


REFERENCE DRAWING GROUP D

PNEUMATIC TANK VALVE BODY STYLES

(No Requirements)

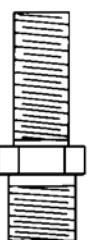
1



2



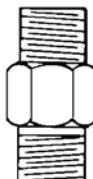
3



4



5

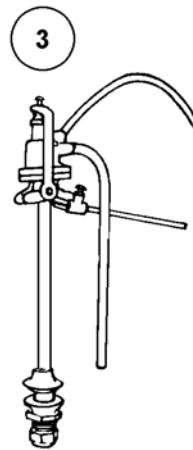
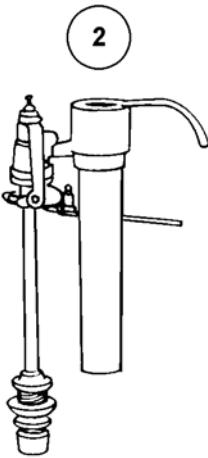
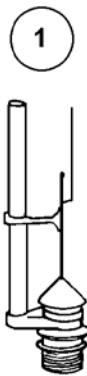


Straight Thru Straight Thru Straight Thru Straight Thru Straight Thru

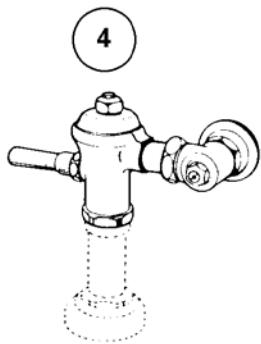
REFERENCE DRAWING GROUP E

FLOAT AND FLUSH VALVE BODY STYLES

(No Requirements)



FLUSH VALVE FLOAT VALVE W RENEWABLE SEAT, VACUUM W/RENEWABLE SEAT
(ENCLOSED TYPE) BREAKER, FLOAT ROD AND REFILL TUBE AND REFILL TUBE



FLUSH VALVE
(EXPOSED TYPE)

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APPENDIX B

REFERENCE DRAWING GROUP F Tables
FOOT VALVE BODY STYLES

INDEX OF MASTER REQUIREMENT CODES

NOTE: REPLY ONLY TO THE MRC THAT IS APPLICABLE TO THE BODY STYLE SELECTED. Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADARJAA6.000*; ADARJAB6.000\$\$JAC6.500*)

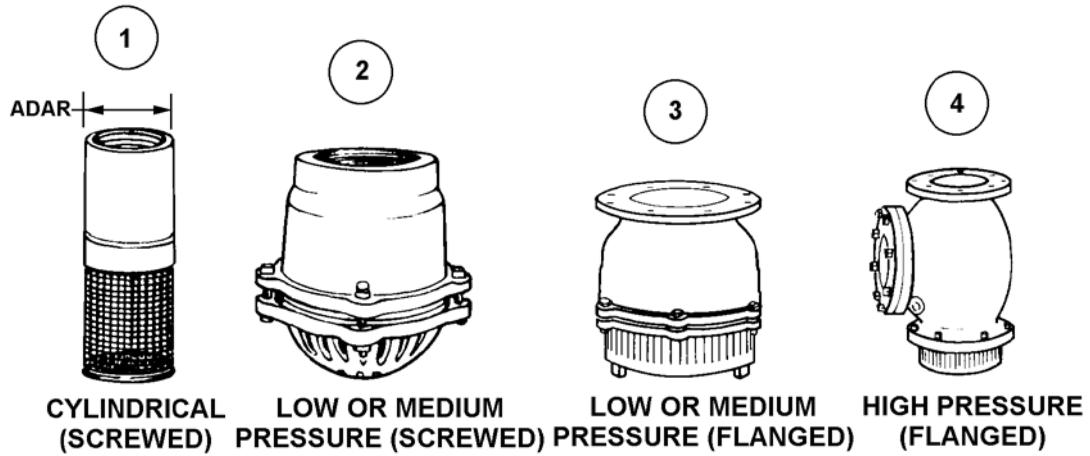
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ADAR	J	BODY OUTSIDE DIAMETER

REFERENCE DRAWING GROUP F

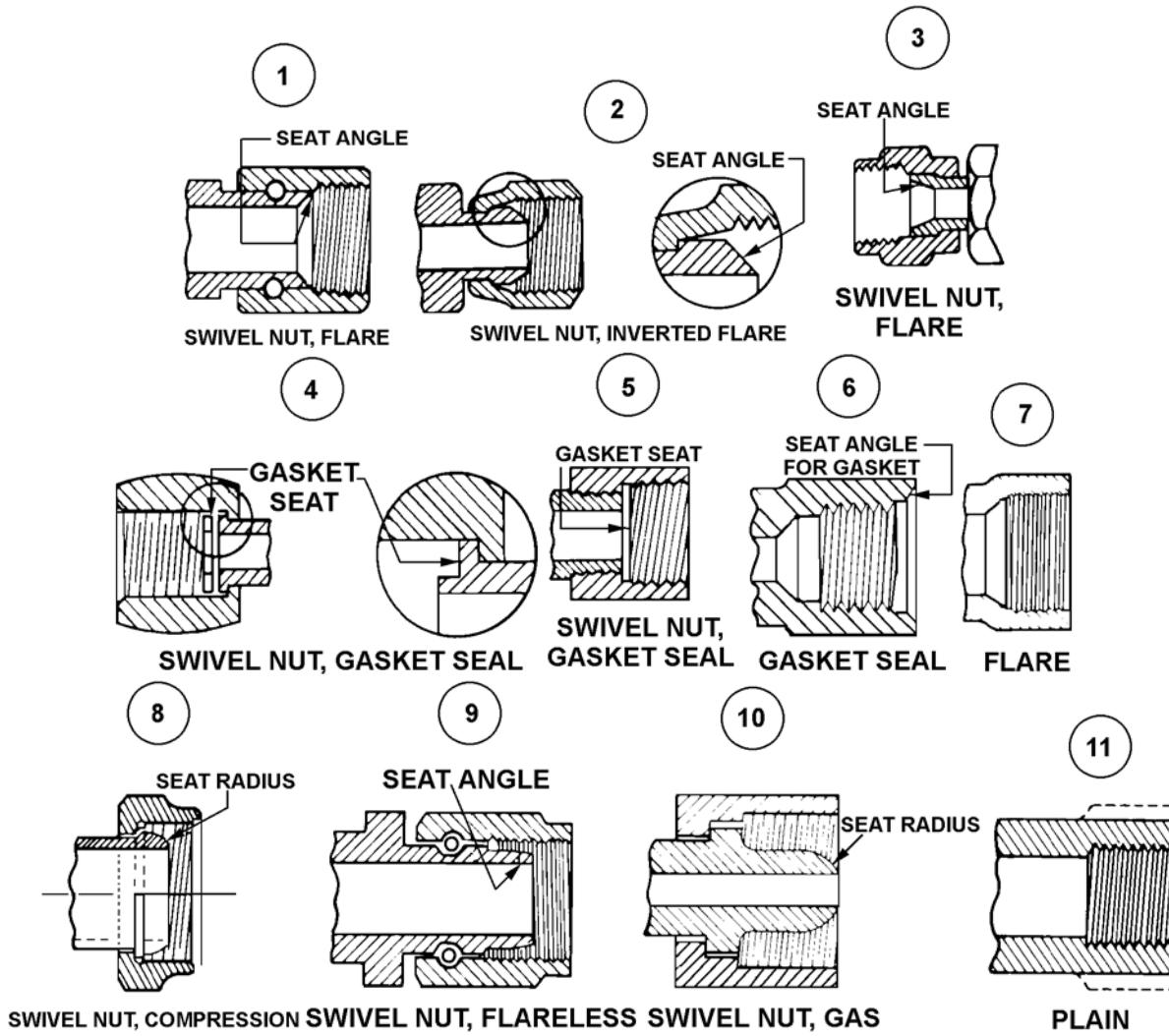
FOOT VALVE BODY STYLES

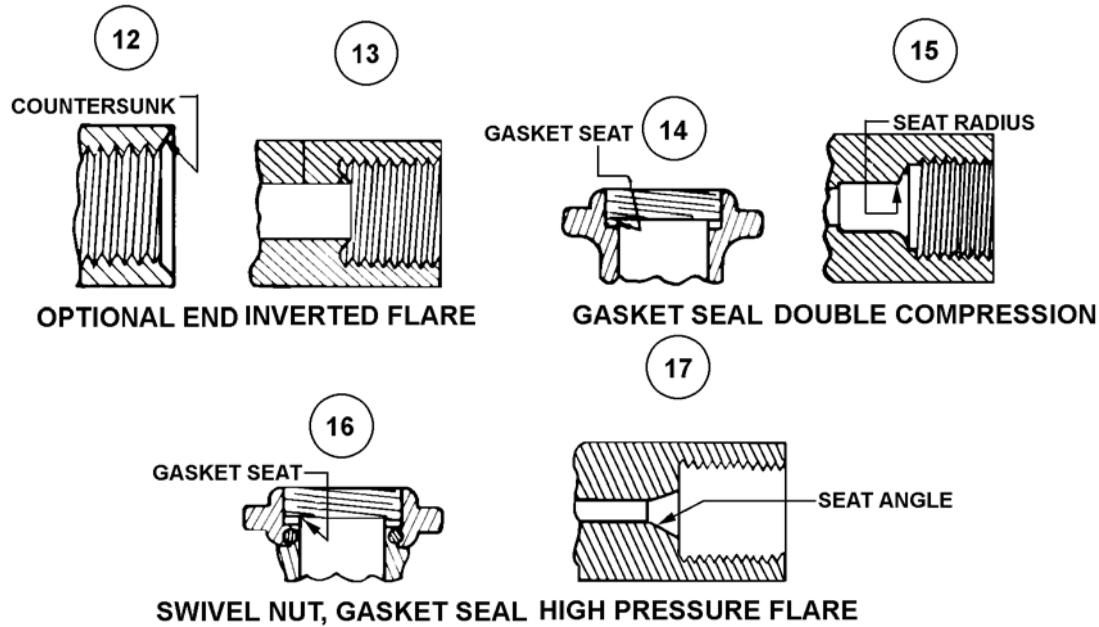


REFERENCE DRAWING GROUP G

END CONNECTIONS THREADED INTERNAL

(No Requirements)

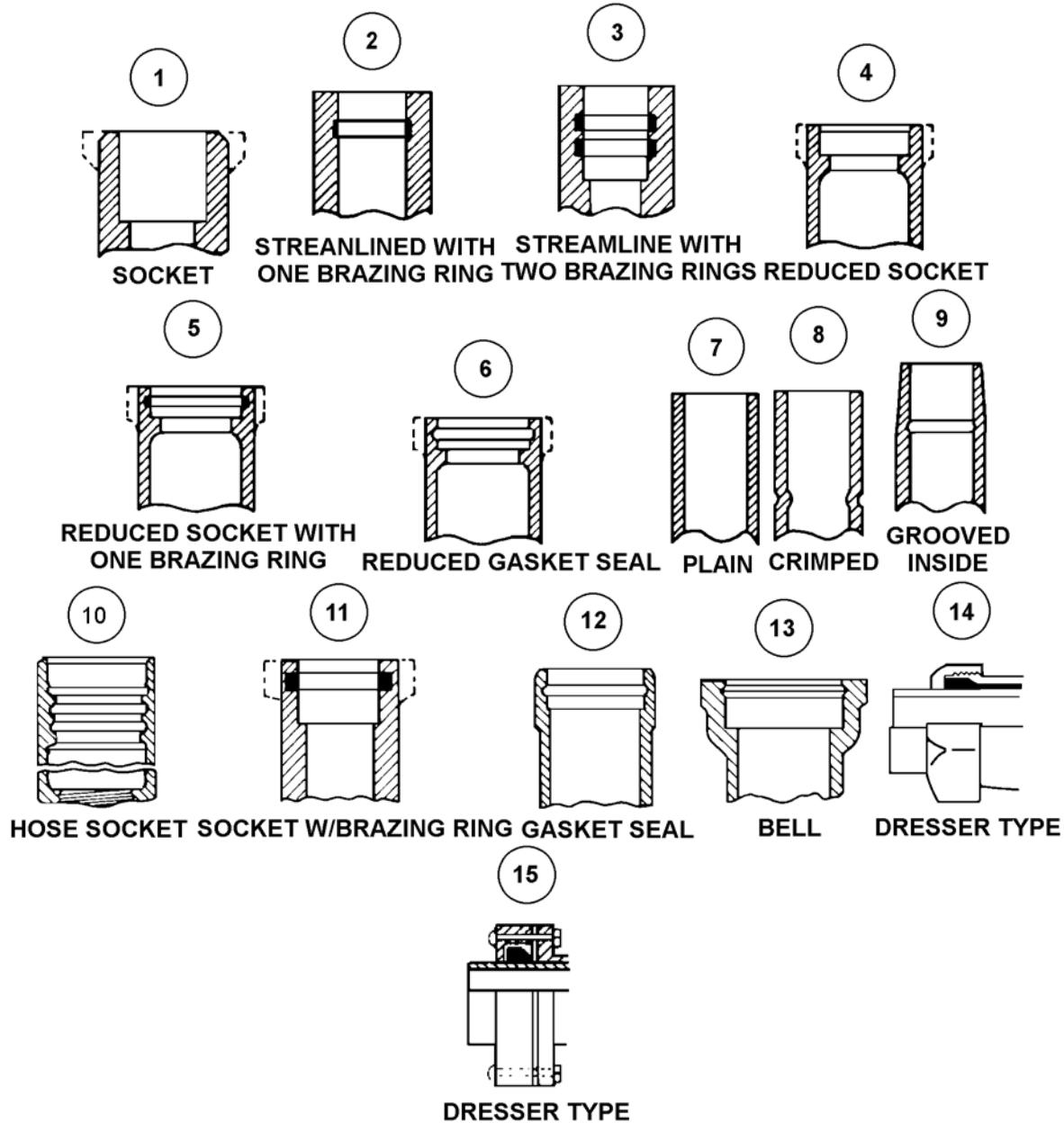




REFERENCE DRAWING GROUP H

END CONNECTIONS UNTHREADED INTERNAL

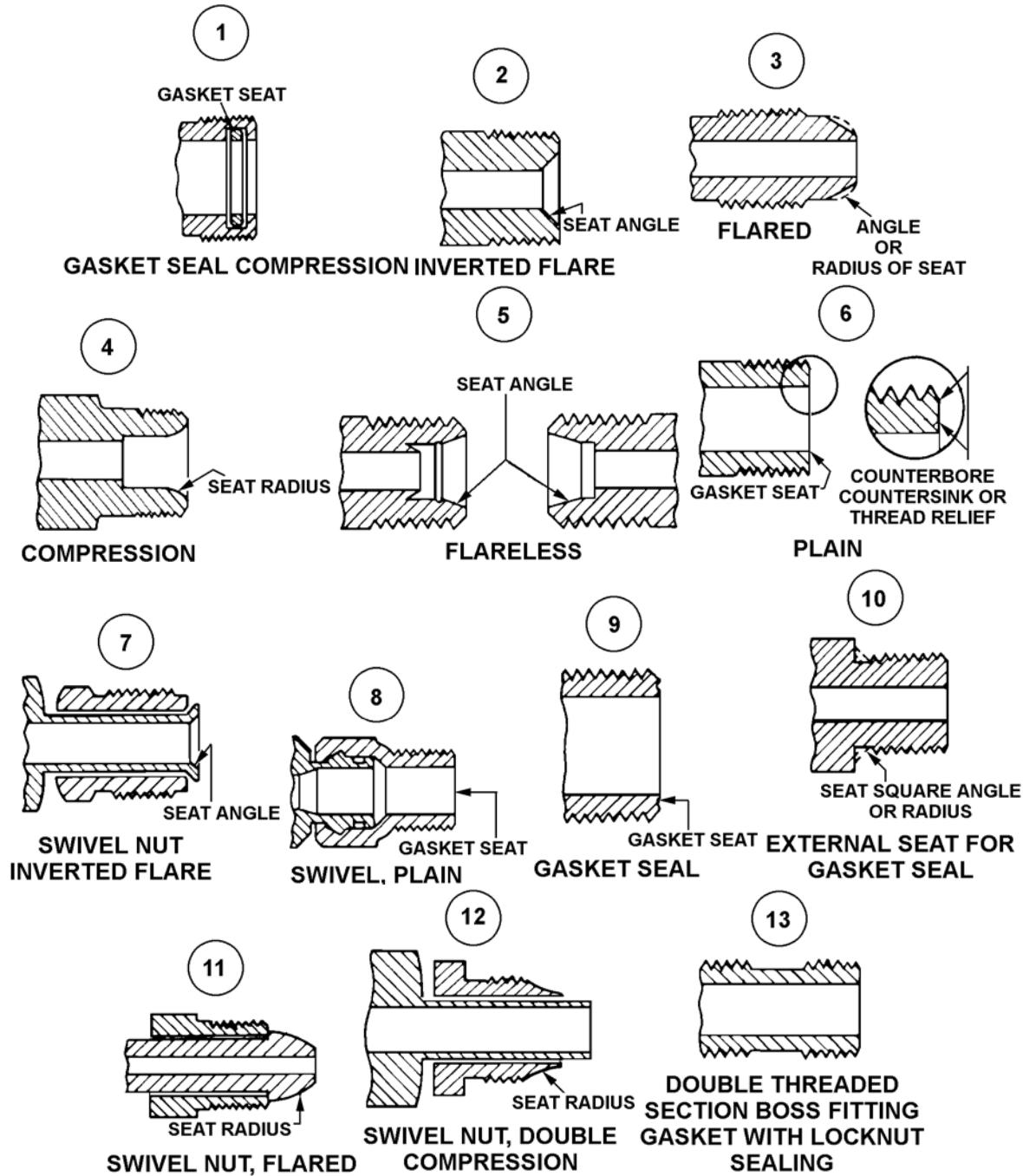
(No Requirements)



REFERENCE DRAWING GROUP J

END CONNECTIONS THREADED EXTERNAL

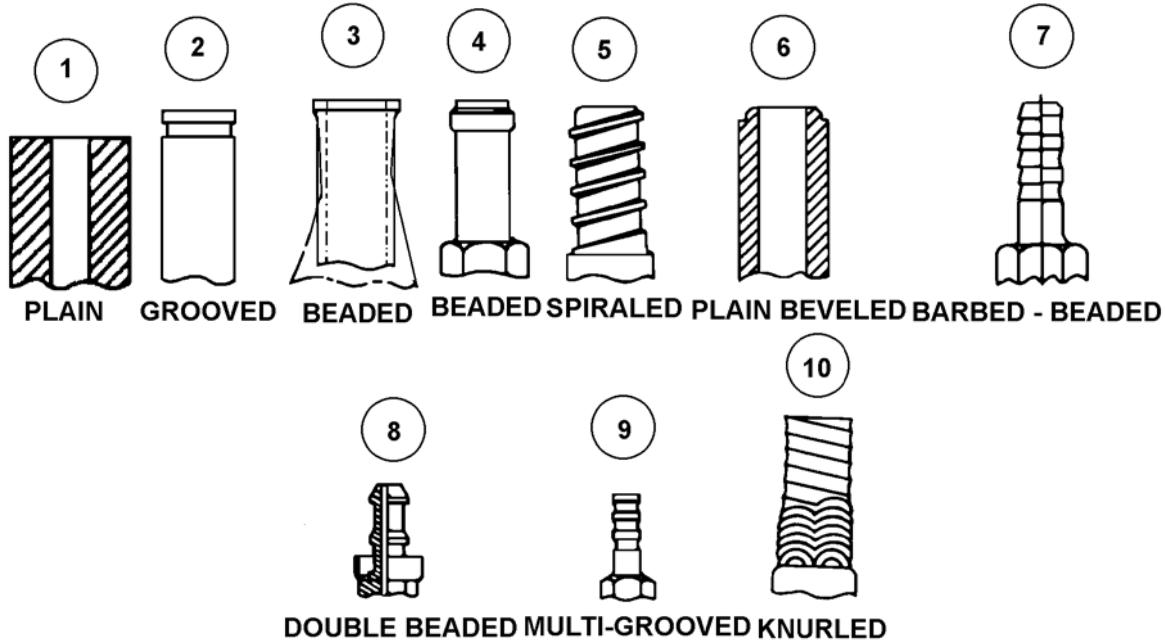
(No Requirements)



REFERENCE DRAWING GROUP K

END CONNECTIONS UNTHREADED EXTERNAL

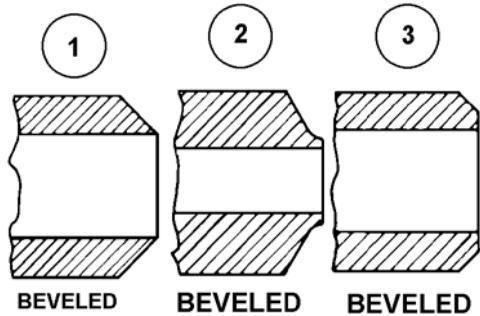
(No Requirements)



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REFERENCE DRAWING GROUP L
END CONNECTIONS BUTT WELD

(No Requirements)



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APPENDIX B

REFERENCE DRAWING GROUP M Tables
FLANGE TYPE

INDEX OF MASTER REQUIREMENT CODES

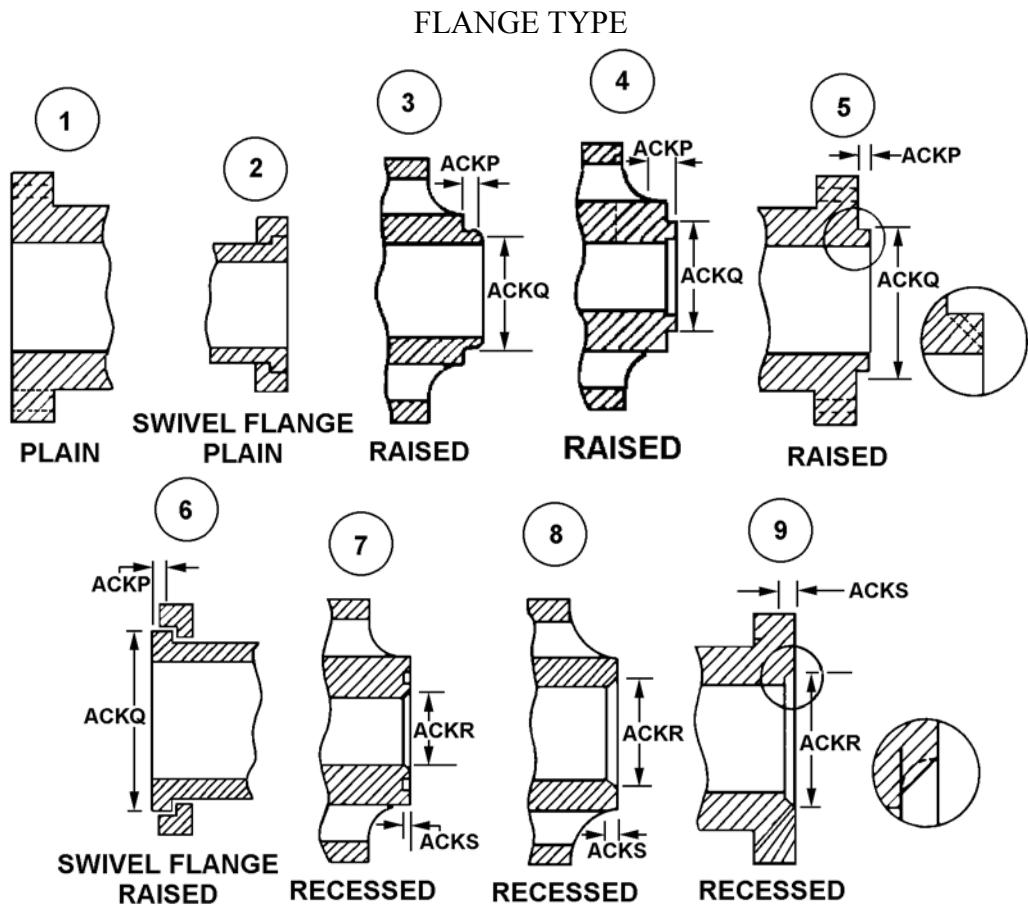
Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ACKPJAA0.125*; ACKSJAB0.123\$\$JAC0.126*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ACKP	J	FIRST END RAISED FACE HEIGHT
ACKQ	J	FIRST END RAISED FACE DIAMETER
ACKR	J	FIRST END RECESS DIAMETER
ACKS	J	FIRST END RECESS DEPTH
ACLU	J	SECOND END RAISED FACE HEIGHT
ACLV	J	SECOND END RAISED FACE DIAMETER
ACLW	J	SECOND END RECESS DIAMETER
ACLX	J	SECOND END RECESS DEPTH
ACNA	J	THIRD END RAISED FACE HEIGHT
ACNB	J	THIRD END RAISED FACE DIAMETER
ACNC	J	THIRD END RECESS DIAMETER
ACND	J	THIRD END RECESS DEPTH
ACPH	J	FOURTH END RAISED FACE HEIGHT
ACPJ	J	FOURTH END RAISED FACE DIAMETER
ACPK	J	FOURTH END RECESS DIAMETER
ACPL	J	FOURTH END RECESS DEPTH

REFERENCE DRAWING GROUP M



REFERENCE DRAWING GROUP N Tables
FLANGE SHAPES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., AAHFJAA0.500*; AAHFJAB0.501\$\$JAC0.505*)

NOTE: REPLY TO MASTER REQUIREMENT CODES

ACNQ,ACPW,AFLN,AFLP,AFLQ,AFLR OR AFLS,AFLT,AFLU,AFLV ONLY IF A REPLY
IS GIVEN TO REQUIREMENT 4, SECTION I.

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

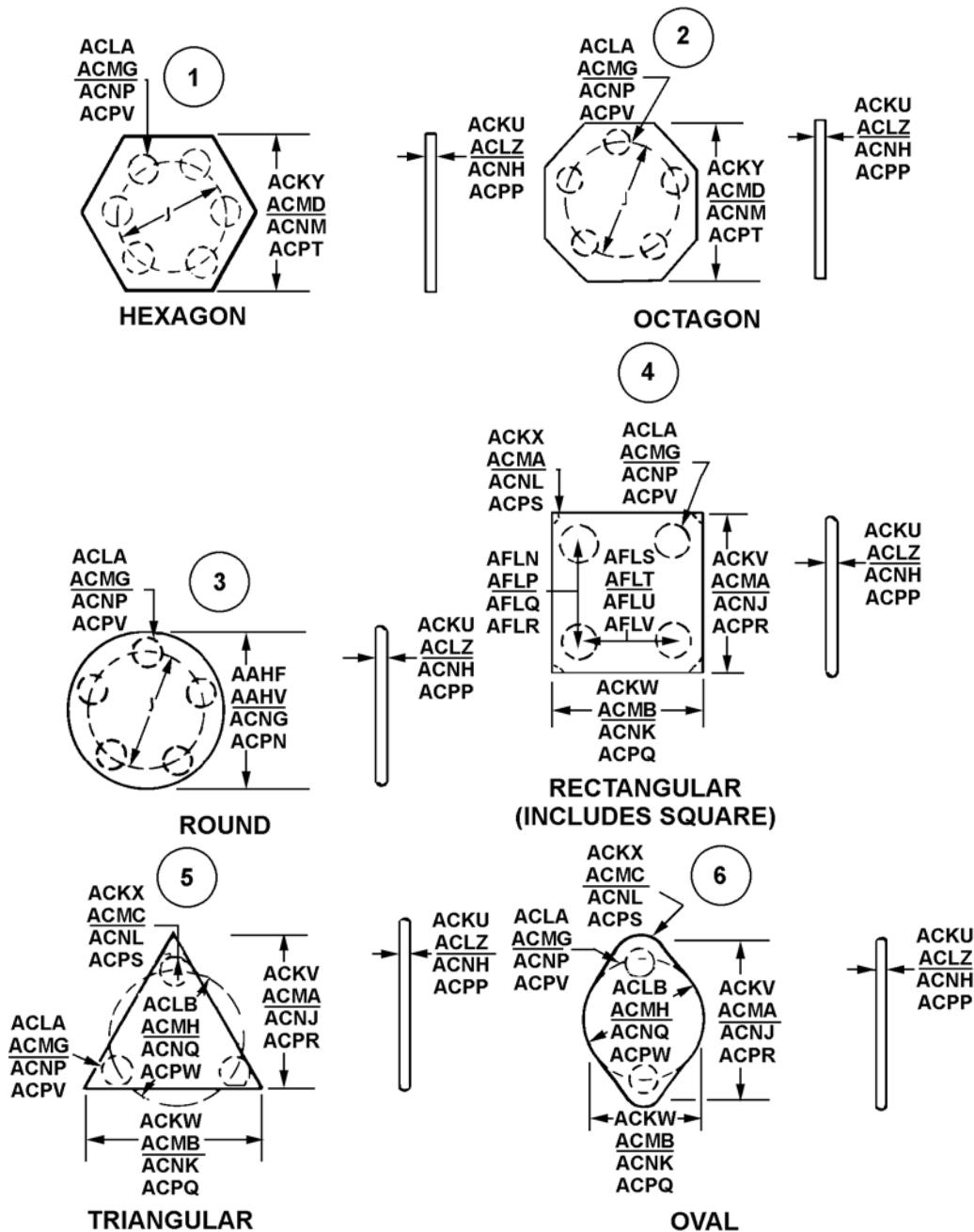
<u>MRC</u>	<u>Mode</u>	<u>Name of Dimension</u>
	<u>Code</u>	
AAHF	J	FIRST END FLANGE OUTSIDE DIAMETER
ACKU	J	FIRST END FLANGE THICKNESS
ACKV	J	FIRST END FLANGE LENGTH
ACKW	J	FIRST END FLANGE WIDTH
ACKX	J	FIRST END FLANGE END RADIUS
ACKY	J	FIRST END WIDTH ACROSS FLATS
ACLA	J	FIRST END BOLT HOLE DIAMETER
ACLB	J	FIRST END BOLT CIRCLE DIAMETER
AFLN	J	FIRST END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG LENGTH
AFLS	J	FIRST END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG WIDTH
AAHV	J	SECOND END FLANGE OUTSIDE DIAMETER
ACLZ	J	SECOND END FLANGE THICKNESS
ACMA	J	SECOND END FLANGE LENGTH
ACMB	J	SECOND END FLANGE WIDTH
ACMC	J	SECOND END FLANGE END RADIUS
ACMD	J	SECOND END WIDTH ACROSS FLATS
ACMG	J	SECOND END BOLT HOLE DIAMETER
ACMH	J	SECOND END BOLT CIRCLE DIAMETER

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<u>MRC</u>	<u>Mode</u>	<u>Name of Dimension</u>
	<u>Code</u>	
AFLP	J	SECOND END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG
AFLT	J	SECOND END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG
ACNG	J	THIRD END FLANGE OUTSIDE DIAMETER
ACNH	J	THIRD END FLANGE THICKNESS
ACNJ	J	THIRD END FLANGE LENGTH
ACNK	J	THIRD END FLANGE WIDTH
ACNL	J	THIRD END FLANGE END RADIUS
ACNM	J	THIRD END WIDTH ACROSS FLATS
ACNP	J	THIRD END BOLT HOLE DIAMETER
ACNQ	J	THIRD END BOLT CIRCLE DIAMETER
AFLQ	J	THIRD END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG LENGTH
AFLU	J	THIRD END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG WIDTH
ACPN	J	FOURTH END FLANGE OUTSIDE DIAMETER
ACPP	J	FOURTH END FLANGE THICKNESS
ACPR	J	FOURTH END FLANGE LENGTH
ACPQ	J	FOURTH END FLANGE WIDTH
ACPS	J	FOURTH END FLANGE END RADIUS
ACPT	J	FOURTH END WIDTH ACROSS FLATS
ACPV	J	FOURTH END BOLT HOLE DIAMETER
ACPW	J	FOURTH END BOLT CIRCLE DIAMETER
AFLR	J	FOURTH END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG
AFLV	J	FOURTH END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG

REFERENCE DRAWING GROUP N
FLANGE SHAPES

NOTE: IF WITHOUT BOLT HOLES, SUFFIX ANY STYLE WITH "A". IF WITH BOLT HOLES, STYLE 5 MUST HAVE 3 BOLT HOLES. IF WITH BOLT HOLES, STYLE 6 MUST HAVE 2 BOLT HOLES. MASTER REQUIREMENT CODES ACKU,ACLZ,ACNH AND ACPP MUST BE ANSWERED FOR ALL STYLES.



Technical Data Tables

STANDARD FRACTION TO DECIMAL CONVERSION CHART	138
CONVERSION TABLE	139

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APPENDIX C

STANDARD FRACTION TO DECIMAL CONVERSION CHART

<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	To 3	To 4	<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	To 3	To 4						
				1/64	.016	.0156					33/64	.516	.5156						
				1/32	----	.031	.0312			17/32	----	.531	.5312						
				3/64	.047	.0469					35/64	.547	.5469						
				1/16	----	.062	.0625			9/16	----	----	.562	.5625					
					5/64	.078	.0781				37/64	.578	.5781						
					3/32	----	.094	.0938			19/32	----	.594	.5938					
					7/64	.109	.1094				39/64	.609	.6094						
					1/8	----	----	.125	.1250	5/8	----	----	.625	.6250					
						9/64	.141	.1406				41/64	.641	.6406					
						5/32	----	.156	.1562			21/32	----	.656	.6562				
						11/64	.172	.1719				43/64	.672	.6719					
						3/16	----	.188	.1875			11/16	----	.688	.6875				
						13/64	.203	.2031				45/64	.703	.7031					
						7/32	----	.219	.2188			23/32	----	.719	.7188				
						15/64	.234	.2344				47/64	.734	.7344					
						1/4	----	----	.250	.2500	3/4	----	----	.750	.7500				
							17/64	.266	.2656				49/64	.766	.7656				
							9/32	----	.281	.2812			25/32	----	.781	.7812			
							19/64	.297	.2969				51/64	.797	.7969				
							5/16	----	.312	.3125			13/16	----	.812	.8125			
								21/64	.328	.3281				53/64	.828	.8281			
								11/32	----	.344	.3438			27/32	----	.844	.8438		
								23/64	.359	.3594				55/64	.859	.8594			
								3/8	----	----	.375	.3750		7/8	----	----	.875	.8750	
									25/64	.391	.3906				57/64	.891	.8906		
									13/32	----	.406	.4062			29/32	----	.906	.9062	
									27/64	.422	.4219				59/64	.922	.9219		
									7/16	----	.438	.4375			15/16	----	.938	.9375	
										29/64	.453	.4531				61/64	.953	.9531	
										15/32	----	.469	.4688			31/32	----	.969	.9688
										31/64	.484	.4844				63/64	.984	.9844	
											.500	.5000				1.000	1.0000		

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APPENDIX C

CONVERSION TABLE

<u>VACUUM INCHES OF HG</u>	<u>MILLIMETERS</u>	<u>ABS PSI</u>	<u>PSI GA</u>	<u>ABS PSI</u>	<u>PSI GA</u>	<u>ABS PSI</u>
27.88	708.152	1.0	0.0	14.696	155.3	170.0
27.48	697.992	1.2	0.3	15.0	160.3	175.0
27.07	687.578	1.4	1.3	16.0	165.3	180.0
26.66	677.164	1.6	2.3	17.0	170.3	185.0
26.26	667.004	1.8	3.3	18.0	175.3	190.0
25.85	656.590	2.0	4.3	19.0	180.3	195.0
25.44	646.176	2.2	5.3	20.0	185.3	200.0
25.03	635.762	2.4	6.3	21.0	190.3	205.0
24.63	625.602	2.6	7.3	22.0	195.3	210.0
24.22	615.188	2.8	8.3	23.0	200.3	215.0
23.81	604.774	3.0	9.3	24.0	205.3	220.0
22.79	578.866	3.5	10.3	25.0	210.3	225.0
21.78	553.212	4.0	11.3	26.0	215.3	230.0
20.76	527.304	4.5	12.3	27.0	220.3	235.0
19.74	501.396	5.0	13.3	28.0	225.0	240.0
18.72	475.488	5.5	14.3	29.0	230.3	245.0
17.70	449.580	6.0	15.3	30.0	235.3	250.0
16.69	423.926	6.5	20.3	35.0	240.3	255.0
15.67	398.018	7.0	25.3	40.0	245.3	260.0
14.65	372.110	7.5	30.3	45.0	250.3	265.0
13.63	346.202	8.0	35.3	50.0	255.3	270.0
12.61	320.294	8.5	40.3	55.0	260.3	275.0
11.60	294.640	9.0	45.3	60.0	265.3	280.0
10.58	268.732	9.5	50.3	65.0	270.3	285.0
9.56	242.824	10.0	55.3	70.0	275.3	290.0
7.52	191.008	11.0	60.3	75.0	280.3	295.0
5.49	139.446	12.0	65.3	80.0	285.3	300.0
3.45	87.630	13.0	70.3	85.0	305.3	320.0
1.42	36.068	14.0	75.3	90.0	325.3	340.0
			80.3	95.0	345.3	360.0
			85.3	100.0	365.3	380.0
			90.3	105.0	385.3	400.0
			95.3	110.0	405.3	420.0
			100.3	115.0	425.3	440.0
			105.3	120.0	445.3	460.0
			110.3	125.0	465.3	480.0
			115.3	130.0	485.3	500.0

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APPENDIX C

<u>VACUUM INCHES OF HG</u>	<u>MILLIMETERS</u>	<u>ABS PSI</u>	<u>PSI GA</u>	<u>ABS PSI</u>	<u>PSI GA</u>	<u>ABS PSI</u>
		120.3	135.0	505.3	520.0	
		125.3	140.0	525.3	540.0	
		130.3	145.0	545.3	560.0	
		135.3	150.0	565.3	580.0	
		140.3	155.0	585.3	600.0	
		145.3	160.0	605.0	620.0	
		150.3	165.0			

FIIG Change List

FIIG Change List, Effective September 4, 2009

Change "SAC" Coding to AND coding for MRC's AAJJ, ACKL, ADSY, and ABJH.

Deleted narrative "Change to mode code K" for MRC's AAJJ, ABJH, ADSY, ADSV, and ADSW.